



P16-0371 Panorama Project

Panorama Outbreak Management User Manual

PNS OTB 101 Outbreak Management

Version 1.0

Dated: 2018-10-18

© 2018 Nova Scotia Department of Health and Wellness

This document is a product of Nova Scotia Department of Health and Wellness. This document and its contents are protected by Canadian and international copyright laws. The contents of this document are confidential and proprietary and are provided to the recipient with the specific understanding that neither the document, nor the information, concepts, ideas, materials, and/or specifications presented herein will be used for any purpose other than the recipient's work with or for The Department of Health and Wellness. Any duplication, distribution, disclosure, or other use except as expressly authorized in writing by The Department of Health and Wellness is strictly prohibited.

The recipient acknowledges that presentation of this document conveys no rights to the intellectual property contained herein. The Department of Health and Wellness makes no warranties, either express or implied, in this document, and The Department of Health and Wellness assumes no liability for any errors, omissions, or inaccuracies included within this document. Information in this document is subject to change without notice.

TABLE OF CONTENTS

1	SEARCH/CREATE OUTBREAK – OVERVIEW	1
1.1	SEARCH OUTBREAKS.....	1
1.2	PREVIEW OUTBREAKS	4
1.3	PUT OUTBREAK INTO CONTEXT AND VIEW OUTBREAK SUMMARY.....	4
1.4	CREATE OUTBREAK.....	5
1.5	UPDATE AN OUTBREAK.....	8
1.6	CLOSE OUTBREAK.....	9
2	OUTBREAK SUMMARY - OVERVIEW	12
2.1	ADD/UPDATE OUTBREAK DISEASES	12
2.2	OUTBREAK CLASSIFICATION SUMMARY.....	15
2.3	OUTBREAK PRESET SIGNS & SYSTEMS COUNTS.....	16
2.4	OUTBREAK MONITORED OUTCOME COUNT	17
2.5	OUTBREAK EXPOSURE SUMMARY	19
2.6	OUTBREAK INTERVENTIONS SUMMARY	20
2.7	INVESTIGATION INTERVENTION SUMMARY	21
2.8	OUTBREAK UDF.....	23
2.9	LINK OUTBREAKS	25
3	OUTBREAK DETAILS - OVERVIEW.....	26
3.1	DESCRIPTION	26
3.2	DECLARATION	26
3.3	DISEASE SUMMARY	28
3.4	REPORTING SOURCE	32
3.5	USER DEFINED FORM	35
4	OUTBREAK SUBJECT SUMMARY – OVERVIEW.....	37
4.1	CREATE OUTBREAK GROUPS.....	37
4.2	INVESTIGATIONS	41
	4.2.1 Add Investigation to Outbreak.....	42
4.3	CLASSIFICATION SUMMARY	45
4.4	IMMUNIZATION SUMMARY	46
5	VIEW COUNTS.....	48
5.1	VIEW SIGNS & SYMPTOMS COUNTS.....	48
5.2	OUTCOMES COUNTS.....	50
6	OUTBREAK UNIDENTIFIED COUNTS	52
6.1	RECORD UNIDENTIFIED INVESTIGATIONS	52
6.2	RECORD UNIDENTIFIED SIGNS & SYMPTOMS COUNTS.....	53
6.3	RECORD UNIDENTIFIED OUTCOME COUNTS.....	54
6.4	RECORD UNIDENTIFIED INTERVENTION COUNTS.....	56
7	EXPOSURES.....	59
7.1	VIEW EXPOSURE SUMMARY	59
7.2	QUICK ENTRY – TRANSMISSION EVENT	59
7.3	CREATE TRANSMISSION EVENT.....	59
8	INTERVENTION SUMMARY.....	63
8.1	VIEW INTERVENTION SUMMARY	63
8.2	CREATE INTERVENTION.....	63
9	OUTBREAK ADMINISTRATION.....	66
9.1	LINK OUTBREAKS	66

9.1.1	<i>Link a Parent Outbreak to a Child Outbreak</i>	66
9.1.2	<i>Unlinking Child Outbreaks</i>	68
9.2	OUTBREAK PRESETS	70
9.2.1	<i>Preset Interventions</i>	70
9.2.2	<i>Preset Signs & Symptoms</i>	71

1 SEARCH/CREATE OUTBREAK – OVERVIEW

An outbreak is a rise in the incidence of a disease above the levels expected for that time and place. The outbreak management component of Panorama allows the user to manage a group of investigations, exposures, interventions, signs and symptoms, complications, outcomes, communications, and an outbreak team.

The outbreak management module supports the needs of investigation, monitoring, management, analysis, and reporting a communicable disease outbreak. Outbreak Management builds upon the data captured in the investigation management module. The outbreak summary captures high-level information about an outbreak, including basic outbreak description, presence of linked outbreaks, number of outbreak-related communications and summaries of subjects, outcomes, labs, signs and symptoms, exposures, interventions, and data collected using UDFs. This information is available in a consolidated view to support analysis and management of the outbreak. Outbreaks can be linked together as master (Parent) and sub-outbreaks (Child) to provide a comprehensive view of a multi-organizational outbreak.

Similarly, outbreak subject management provides an aggregate view of the investigations associated with the outbreak.

- Where the system is not prepared for the characteristics of a specific outbreak, forms and questionnaires for data collection can be created for an outbreak using User Defined Forms (UDFs) and made available to individual investigation records that are linked to the outbreak.
- Interventions, signs and symptoms, and complications can be defined for the outbreak and sent to the case management process. Outbreak level interventions, such as mass communication (for example, a boil water advisory), and mass prophylaxis and treatments can also be defined and tracked.

Additional functions include:

1. Tracking aggregate investigation management information includes both numerator (for example, total # ill) and denominator (for example, total # at risk) broken down by various criteria (risk group or location).
2. Exposure management functions which include potential sources of transmission, exposure relationships, and infection conveyance information, as required, tracking and containing an outbreak.
3. Outbreak link functionality.

1.1 Search Outbreaks

1. From **Panorama Dashboard**, click the **Outbreak Tab**

OR

Click **Search Outbreaks** from the **Outbreak module Left Hand Navigation**.

Note: Always search before creating an Outbreak to avoid creating duplicates.

PANORAMA Public Health Solution for Disease Surveillance and Management

PNS Test

Threshold Notifications: 0
Jurisdiction Notifications: 0

Lauren Xie: superuser for Antigonish PHO

Help Contact Us My Account Logout

WORK MGMT INVESTIGATIONS **OUTBREAKS** IMMUNIZATION FAMILY HEALTH INVENTORY ADMIN

Recent Work

- Search
 - Search Outbreaks**
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak
 - Outbreak Summary
 - Outbreak Details
 - Outbreak Subject Summary

Search Outbreaks - Basic

Search Criteria [Hide Search Criteria](#)

Wildcard characters % (multiple letters) and _ (single letters) can be used. Wildcard-only searches not allowed.

Search by:

Outbreak ID:

Alternate Source: Alternate ID:

Outbreak Name:

Outbreak Link Role: Unlinked Only:

Search Outbreaks – Basic screen displays.

2. Enter search criteria.
3. For more search options, scroll down to the bottom of the screen and click on the **Advanced Search hyperlink** and enter search criteria.

Advanced Criteria

[Hide Search Criteria](#)

Outbreak Classification:

Geographic Extent:

Exposure Setting Type:

Exposure Setting:

Exposure Location Name:

Exposure Source Category:

Exposure Source Type: Exposure Source Subtype:

Exposure ID:

Exposure Name:

Is Study:

Search Retrieve Clear Create Outbreak [Basic Search](#)



Tip: To increase efficiency when searching for a specific outbreak, remember the Outbreak ID.

4. Click **Search** button.

Outbreak Search Results						
13 results found.			Click Outbreak ID (OB ID) to view Outbreak Summary.			
Row Actions: <input type="button" value="Preview"/> <input type="button" value="Update"/>		<input type="button" value="Create Outbreak"/> <input type="button" value="New Search"/>				
	OB ID / Alternate No	Outbreak Name	Responsible Organization Unit	Predominant Disease	Earliest Report Date (Received)	Outbreak Status
<input type="checkbox"/>	2 / May-2018-Measles	May 2018 Halifax Measles	Halifax Public Health Office	Measles	2018 May 4	Open
<input type="checkbox"/>	4 / Hep B May 2018	Hepatitis B Outbreak	Halifax Public Health Office	Hepatitis B	2018 May 10	Open
<input type="checkbox"/>	7	May 2018 CZ Typhoid Outbreak - TEST	Halifax Public Health Office	Typhoid	2018 May 27	Open

The system will display a list of Outbreak(s) matching the search criteria provided in the **Outbreak Search Results** section.

Outbreak Search Results	
0 results found. The search criteria entered did not match any results.	<input type="button" value="Create Outbreak"/>

If no Outbreaks are found, the system will display “0 results found, The search criteria entered did not match any results” in the **Outbreak Search Results** section.

Note:

- Clicking the **New Search** button will clear both the previous search criteria and search results.
- Clicking the **Clear** button clears only the search criteria and not previous search results.
- Clicking the **Retrieve** button will populate the search criteria with the values used in the last search.
- The search criteria Users entered when searching for an Outbreak will not auto-populate on the **Create Outbreak** screen.
- The **Search Outbreaks** screen will retain field information that the user has entered when moving from **Basic** to **Advanced Search**.
- If a criterion is a text field, a wildcard search is allowed. Wildcard characters are % for matching multiple letters and _ for matching a single character. For example:
 - Jo%n matches John, Joan, Jon, Johan, Johnson
 - Jo_n matches John, Joan
- When searching using any of the Exposure-related search criteria, the system will search for matches in the Transmission Events associated with Outbreaks.

The **Outbreak Summary** screen may be viewed for all diseases associated to an Outbreak by clicking on the **OB No** within **OB ID/Alternate No** column of the search result.

1.2 Preview Outbreaks

- To preview an Outbreak from the **Outbreak Search Results** section, click the radio button next to the Outbreak row.

Outbreak Search Results						
13 results found. Click Outbreak ID (OB ID) to view Outbreak Summary.						
Row Actions: <input type="checkbox"/> Preview <input type="checkbox"/> Update			<input type="button" value="Create Outbreak"/> <input type="button" value="New Search"/>			
	OB ID / Alternate No	Outbreak Name	Responsible Organization Unit	Predominant Disease	Earliest Report Date (Received)	Outbreak Status
<input checked="" type="checkbox"/>	2 / May-2018-Measles	May 2018 Halifax Measles	Halifax Public Health Office	Measles	2018 May 4	Open

Row Action is activated, making **Preview** and **Update** available.

- Click **Preview**.

Outbreak Preview		Outbreak Preview Hide	
Outbreak ID:	2	Alternate ID	Alternate Source
Outbreak Name:	May 2018 Halifax Measles	May-2018-Measles	Other : Test
Responsible Organization Unit(s):	Halifax Public Health Office		
Outbreak Link Role:	Child	Primary Investigator:	MacKirdy, Susan
Outbreak Type:	Human to human transmission	Exposure Source:	-
Outbreak Status:	Open	Exposure Location:	-
Geographic Extent:	-	Exposure Setting Type:	-
Encounter Group:	Communicable Disease Investigation	Exposure Setting:	-
Predominant Disease:	Measles		
Microorganism:	-		

Outbreak Search Results						
13 results found. Click Outbreak ID (OB ID) to view Outbreak Summary.						
Row Actions: <input checked="" type="checkbox"/> Preview <input type="checkbox"/> Update			<input type="button" value="Create Outbreak"/> <input type="button" value="New Search"/>			
	OB ID / Alternate No	Outbreak Name	Responsible Organization Unit	Predominant Disease	Earliest Report Date (Received)	Outbreak Status
<input checked="" type="checkbox"/>	2 / May-2018-Measles	May 2018 Halifax Measles	Halifax Public Health Office	Measles	2018 May 4	Open

The **Outbreak Preview** section opens above the **Outbreak Search Results** section.

1.3 Put Outbreak into Context and View Outbreak Summary

- Click **OB ID** hyperlink within the **OB ID/Alternate No** column of the **Outbreak Search Results** section to view Outbreak Summary.

Outbreak Search Results						
13 results found.				Click Outbreak ID (OB ID) to view Outbreak Summary.		
Row Actions: <input type="button" value="Preview"/> <input type="button" value="Update"/>		<input type="button" value="Create Outbreak"/> <input type="button" value="New Search"/>				
	OB ID / Alternate No	Outbreak Name	Responsible Organization Unit	Predominant Disease	Earliest Report Date (Received)	Outbreak Status
<input type="checkbox"/>	2 / May-2018-Measles	May 2018 Halifax Measles	Halifax Public Health Office	Measles	2018 May 4	Open
<input type="checkbox"/>	4 / Hep B May 2018	Hepatitis B Outbreak	Halifax Public Health Office	Hepatitis B	2018 May 10	Open
<input type="checkbox"/>	7	May 2018 CZ Typhoid Outbreak - TEST	Halifax Public Health Office	Typhoid	2018 May 27	Open

The **Outbreak Summary** screen now displays and the Outbreak is put into Context.

Outbreak Summary

? ☰

OB No: 4	OB Name: Hepatitis B Outbreak	Disease: Hepatitis B	Etiologic Agent: -	OB Status: Open
-----------------------------	----------------------------------	-------------------------	-----------------------	--------------------

Reason for Deletion:

Outbreak Link Role: Child	Outbreak Classification: Confirmed	Primary Investigator: MackKirdy, Susan	Primary Investigator Backup: -	First Reported Date: 2018 May 10
------------------------------	---------------------------------------	---	-----------------------------------	-------------------------------------

All counts are for Human Subjects only.

Outbreak Diseases ↑ Hide

1.4 Create Outbreak

Note: An outbreak only becomes fully operational when an outbreak disease and outbreak reporting notification has been added. Until then, users will not be allowed to add investigations, link the outbreak, enter unidentified aggregate counts, or add outbreak presets.

1. In the Outbreaks Module, navigate to the **Left-Hand Navigation** menu and select **Search Outbreaks**.

WORK MGMT | INVESTIGATIONS | **OUTBREAKS** | IMMUNIZATION | FAMILY HEALTH | INVENTORY | ADMIN

Recent Work

- Search
 - Search Outbreaks**
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak
 - Outbreak Summary
 - Outbreak Details
 - Description
 - Declaration
 - Disease Summary
 - Outbreak Team
 - Reporting Source
 - User Defined Forms
 - Outbreak Subject Summary
 - View Counts
 - Record Unidentified Counts
 - Exposure Summary
 - Intervention Summary
 - Lab Summary
 - Outbreak Communications
- Notes
- Document Management
- Communication Templates
- Reporting & Analysis
- Notifications

Search Outbreaks - Basic

Search Criteria Hide Search Criteria

Wildcard characters % (multiple letters) and _ (single letters) can be used. Wildcard-only searches not allowed.

Search by:

Outbreak ID:

Alternate Source: Alternate ID:

Outbreak Name:

Outbreak Link Role: Unlinked Only:

Outbreak Type:

Outbreak Status:

Outbreak Setting Type:

Outbreak Setting:

Responsible Organization Unit(s): Exact Match

To specify an Organization first click on the 'Find' button. Then search, or type the name of the Organization you wish to specify, select it and click on 'Select' button. Then click 'Close' to close.

Organization: Top Level > Level 2 (specific one) > Level 3 (specific one) > [Selected Level 4 Organization] Find

Encounter Group:

Disease:

Microorganism:

Disease Lab Confirmed:

Report Date (Received) Range From: / / To: / /

yyyy mm dd yyyy mm dd

Search Retrieve Clear **Create Outbreak** Advanced Search

Search Outbreaks – Basic screen displays.

2. Click **Create Outbreak**.

Create Outbreak

Submit Clear

Additional details may be entered after the outbreak has been created.

* Required field

Outbreak Identification Hide

Outbreak ID:

* Outbreak Name:

Alternate Outbreak IDs

* Alternate ID:

* Alternate Source:

* Other Source:

Add Alternate ID Clear

The **Create Outbreak** screen displays.

3. Enter **Outbreak Name** according to Nova Scotia's outbreak naming conventions.

4. If applicable, enter an '**Alternate ID**' and '**Alternate Source**'.

Note: The 'Alternate ID' and 'Alternate Source' fields are not system mandatory fields, despite having an asterix. Only fill in these sections if you have an Alternate ID and Alternate Source for this Outbreak.

5. Click on the **Add Alternate ID** button to add the Alternate ID to the summary table.
6. If '**Alternate Source**' selected is '**Other**' the '**Other Source**' field is enabled and becomes a required field.
7. Search for a **Responsible Organization Unit** by clicking the **Find** button. Click the **Select** button once you have selected the correct Responsible Organization Unit.

Note: There can be more than one Responsible Organization Unit assigned to an Outbreak. A user can add more Responsible Organization Unit(s) after creating the Outbreak.

The Responsible Organization Unit is one of the criteria used to find matching Investigations. Only Investigations at/below selected Outbreak Responsible Organization Unit will return.

8. Ignore the **Study** check box. The use of the Study flag is not currently recommended.
9. Complete the Panorama mandatory fields marked with a red asterisk (*). Complete optional fields as required.
10. **Outbreak Status** automatically defaults to **Open**. Enter **Status Date**.

11. Select **Outbreak Link Role**.



Tip: Outbreak Link Role defaults to "Child". If this a Parent outbreak to which child outbreaks will be attached, change the default setting.

12. Enter **Outbreak Onset Date** if known.



Tip: Use first case of disease onset for this field.

13. In the **Reporting Source** section, select '**Location**' or '**Other**'.



Tip: User Other for reporting sources located outside the province.

14. Review information on the screen, then click **Submit**.

Screen refreshes and confirmation message 'Outbreak successfully created' displays. System also auto-assigns and displays an OB ID.

Outbreak Description



OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

Outbreak successfully created

[Save](#) [Reset](#)

* Required field

Outbreak Identification Hide

Outbreak ID: 16

* **Outbreak Name:** Measles OB

Alternate Outbreak IDs

* **Alternate ID:**

1.5 Update an Outbreak

1. Search for, and locate, the Outbreak to be updated.
2. From the **Outbreak Search Results** section, in the **OB ID/Alternate No** column, click the radio button beside desired Outbreak to activate row actions.

Outbreak Search Results						
1 results found.			Click Outbreak ID (OB ID) to view Outbreak Summary.			
Row Actions: Preview Update		Create Outbreak New Search				
	OB ID / Alternate No	Outbreak Name	Responsible Organization Unit	Predominant Disease	Earliest Report Date (Received)	Outbreak Status
<input checked="" type="checkbox"/>	16	Measles OB	Nova Scotia Health Authority	Measles	-	Open

Total: 1 Page 1 of 1 Jump to page:

3. Click **Update**.

Outbreak Description



OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

[Save](#) [Reset](#)

* Required field

Outbreak Identification Hide

Outbreak ID: 16

* **Outbreak Name:** Measles OB

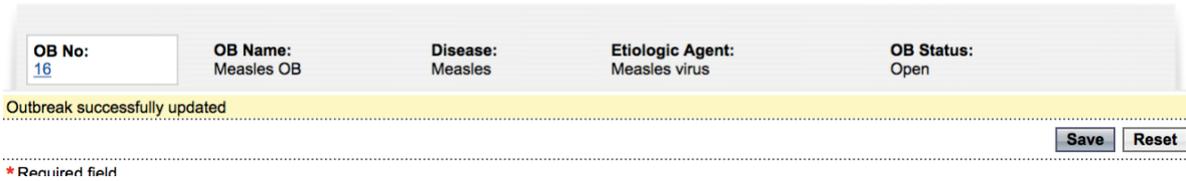
Alternate Outbreak IDs

* **Alternate ID:**

The **Outbreak Description** screen displays.

4. Make any necessary updates, then click **Save**.

Outbreak Description



OB No: OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Outbreak successfully updated

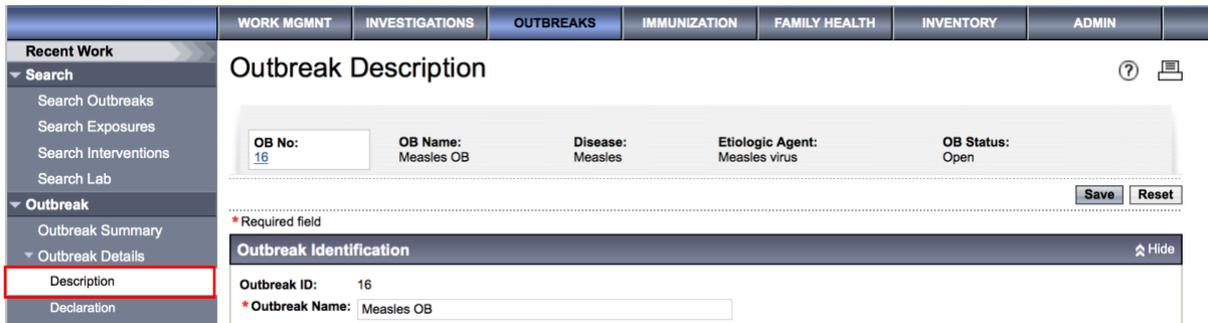
* Required field

Screen refreshes and confirmation message ‘Outbreak successfully updated’ displays.

1.6 Close Outbreak

Before closing an outbreak, the following actions should be taken:

- All related investigations should be updated or closed.
 - Select Outbreak Declared Over date on the Declaration screen.
 - Close related work management tasks.
1. After setting an Outbreak in Context in the Outbreak Module, go to the **Left-Hand Navigation** menu and select **Outbreak Description**.



Recent Work

Search

- Search Outbreaks
- Search Exposures
- Search Interventions
- Search Lab

Outbreak

- Outbreak Summary
- Outbreak Details
 - Description
 - Declaration

WORK MGMT INVESTIGATIONS **OUTBREAKS** IMMUNIZATION FAMILY HEALTH INVENTORY ADMIN

Outbreak Description

OB No: OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Outbreak successfully updated

* Required field

Outbreak Identification

Outbreak ID: 16

* Outbreak Name:

The **Outbreak Description** screen displays.

2. Scroll down to **Outbreak Description** section and in the **Outbreak Status** field, select ‘**Closed**’.
3. Update **Status Date** field.

Study: No
*** Encounter Group:** Communicable Disease Investigation
*** Outbreak Status:** Closed *** Status Date:** 2018 / 08 / 22
yyyy mm dd
*** Outbreak Classification:** Confirmed *** Outbreak Classification Date:** 2018 / 08 / 22
yyyy mm dd
*** Outbreak Link Role:** Child
*** Outbreak Type:** Human to human transmission
Outbreak Onset Date: / /
yyyy mm dd
Geographic Extent:
Outbreak Setting Type:
Outbreak Setting:
Outbreak Description:
(2000 characters)

Confirmation Based On: EPI Link Laboratory
Contributing Factors: Cross Contamination Poor Hygiene Poor Sanitation

Save Reset

4. Click **Save**.

Study: No
*** Encounter Group:** Communicable Disease Investigation
*** Outbreak Status:** Closed *** Status Date:** 2018 / 08 / 22
yyyy mm dd
*** Outbreak Classification:** Confirmed *** Outbreak Classification Date:** 2018 / 08 / 22
yyyy mm dd
*** Outbreak Link Role:** Child
*** Outbreak Type:** Human to human transmission
Outbreak Onset Date: / /
yyyy mm dd

The outbreak status is being changed to closed.
 Inactivation of case definitions recommended

Close

A pop-up warning displays, “The Outbreak status is being changed to closed. Inactivation of case definitions recommended.”

5. Click **Close**.

Outbreak Description



OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Closed
---------------------	-------------------------------	----------------------------	--	-----------------------------

⚠ This outbreak has a status of Closed. Please consider this when making updates to the outbreak.
 Outbreak successfully updated

Save Reset



Screen refreshes and confirmation message “This outbreak has a status of Closed. Please consider this when making updates to this outbreak. Outbreak successfully updated,” displays.

2 OUTBREAK SUMMARY - OVERVIEW

When an outbreak is selected from the search results, the User is presented with a summary of that outbreak and is able to navigate to other areas in the outbreak to view, add, or change details. The User can choose to view the complete summary for any of the following items and return to the view of the outbreak summary:

1. Outbreak Diseases
2. Classification Summary
3. Outbreak Preset Signs & Symptoms Count
4. Outbreak Monitored Outcomes Count
5. Outbreak Exposure Summary
6. Outbreak UDFs
7. Linked Outbreaks

The summary view also supports deleting outbreaks. Deleting outbreaks removes all outbreak-specific information, but any pre-sets saved on an investigation from the outbreak and populated remains on the investigation record (for example, signs and symptoms).

An outbreak **can only be deleted** if:

- There are no investigations associated to it;
- It is not linked to another outbreak;
- It has no exposures associated to it; and
- It has no lab information associated to it.

Once the outbreak is deleted, the User is returned to the outbreak search page without an outbreak In Context. If sub-groups have been identified within the outbreak, the aggregated summary data is displayed.

2.1 Add/Update Outbreak Diseases

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Disease Summary**.

Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak
 - Outbreak Summary
 - Outbreak Details
 - Description
 - Declaration
 - Disease Summary**
 - Outbreak Team
 - Reporting Source
 - User Defined Forms

Disease Summary

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Save Reset

* Required field

Disease Summary

Outbreak Onset Date: -

Earliest Investigation Onset: Latest Investigation Onset: Outbreak Duration (Investigated):

- - -

Add/Update Disease

The **Disease Summary** screen displays. From here a User can view/add/update/ assign predominant diseases /delete disease(s).

Note: Diseases can only be deleted if there is another disease. There must be at least one disease at all associated to the OB at all times.

- To add a new disease, complete the Add/Update Disease section and click **Add Disease**.

Disease Summary

Outbreak Onset Date: -

Earliest Investigation Onset: Latest Investigation Onset: Outbreak Duration (Investigated):

- - -

Add/Update Disease

* Disease:

* Classification Authority:

Microorganism:

* Lab Confirmed?

Add Disease Clear

- To update a disease, click the radio button beside an existing disease, click the activated **Update** button.

Outbreak Description



OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

Outbreak successfully updated

* Required field

Screen refreshes and confirmation message ‘Outbreak successfully updated’ displays.

2.2 Outbreak Classification Summary

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Outbreak Summary**.

Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak
 - Outbreak Summary**
 - Outbreak Details
 - Description
 - Declaration
 - Disease Summary
 - Outbreak Team
 - Reporting Source
 - User Defined Forms
 - Outbreak Subject Summary
 - View Counts
 - Record Unidentified Counts
 - Exposure Summary
 - Intervention Summary
 - Lab Summary

Outbreak Summary

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Reason for Deletion:

Outbreak Link Role: Child Outbreak Classification: Confirmed Primary Investigator: [Xie, Lauren](#) Primary Investigator Backup: - First Reported Date:

All counts are for Human Subjects only.

Outbreak Diseases Hide

[Disease Summary](#)

Disease	Classification Authority	Etiologic Agent	Epi Markers	Lab Confirmed?	Predominant Disease?
Measles	National	Measles virus	-	Yes	✓

Outbreak Classification Summary Hide

[Classification Summary](#)

Group	Pop. Denom.	Not a Case	Not Classified	Case - Confirmed	Case - Probable	Case - Person	Total Cases

Outbreak Summary screen displays.

2. Click **Classification Summary** hyperlink in the **Outbreak Classification Summary** section (also accessible from the left-hand navigation bar).

Outbreak Classification Summary

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Classifying Disease: Measles (Predominant) / Measles virus

Responsible Organization Unit: Nova Scotia Health Authority

Include Counts For: Both Identified Investigations Aggregate Counts

Subject Type: Human Subjects Non-Human Subjects

Include in Counts: Contacts Case - Persons Under Investigation

Display Counts

Group	Pop. Denom.	Not a Case	Not Classified	Case - Confirmed	Case - Probable	Case - Person Under Investigation	Total Cases
Measles OB	0	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Totals:	0	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Classification Summary screen displays. From here, the user can view/update classification information.

The user can also sort by Parent group, including Children or by each Child group.

Users can also sort by Identified and Unidentified counts. Numbers within brackets are known counts and those without brackets are unidentified counts.

2.3 Outbreak Preset Signs & Systems Counts

- After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Outbreak Summary**.

Outbreak Summary

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Reason for Deletion: **Delete**

Outbreak Link Role: Child Outbreak Classification: Confirmed Primary Investigator: [Xie, Lauren](#) Primary Investigator Backup: - First Reported Date:

All counts are for Human Subjects only.

Outbreak Diseases ✓ Contains Data **Show**

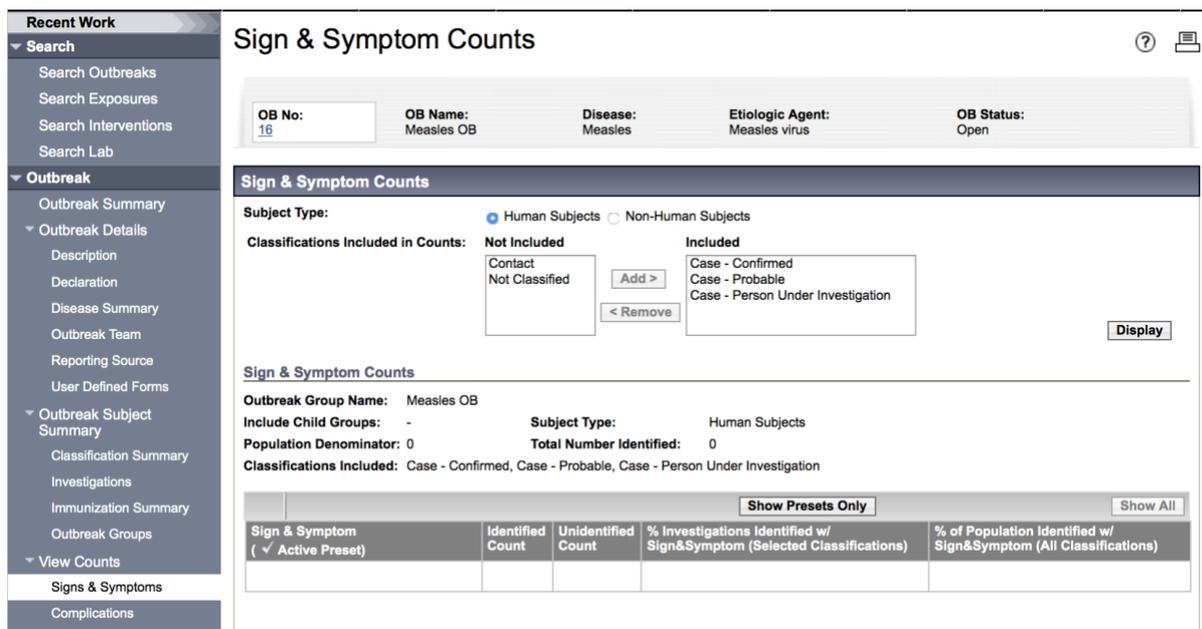
Outbreak Classification Summary ✓ Contains Data **Show**

Outbreak Preset Signs & Symptoms Counts **Hide**

Sign & Symptom	Identified Count	Unidentified Count	% Investigations Identified w/ Sign&Symptom (Case Classifications)	% of Population Identified w/ Sign&Symptom (All Classifications)
Signs & Symptoms				

The **Outbreak Summary** screen displays.

- Click the **Signs & Symptoms** hyperlink in the **Outbreak Preset Signs & Symptoms Counts**. It is also accessible from the left-hand navigation.



Sign & Symptom Counts

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Sign & Symptom Counts

Subject Type: Human Subjects Non-Human Subjects

Classifications Included in Counts:

Not Included	Included
Contact	Case - Confirmed
Not Classified	Case - Probable
	Case - Person Under Investigation

Buttons: Add > < Remove Display

Sign & Symptom Counts

Outbreak Group Name: Measles OB Subject Type: Human Subjects

Include Child Groups: - Population Denominator: 0 Total Number Identified: 0

Classifications Included: Case - Confirmed, Case - Probable, Case - Person Under Investigation

Sign & Symptom (✓ Active Preset)	Identified Count	Unidentified Count	% Investigations Identified w/ Sign&Symptom (Selected Classifications)	% of Population Identified w/ Sign&Symptom (All Classifications)

Buttons: Show Presets Only Show All

The **Preset Signs & Symptoms Counts** screen displays. This page provides a summary level view of the distribution of signs and symptoms types experienced by identified and unidentified counts by percentage.

From here, Users can view/sort both Preset and Non-Preset Signs and Symptoms by Parent and/or Child Groups. Further sorting by Classification is also available.

2.4 Outbreak Monitored Outcome Count

- After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Outbreak Summary**.

Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak**
 - Outbreak Summary**
 - Outbreak Details
 - Description
 - Declaration
 - Disease Summary
 - Outbreak Team
 - Reporting Source
 - User Defined Forms
 - Outbreak Subject Summary
 - Classification Summary
 - Investigations
 - Immunization Summary
 - Outbreak Groups
 - View Counts
 - Signs & Symptoms
 - Complications
 - Outcomes
 - Record Unidentified Counts
 - Exposure Summary

Outbreak Summary

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Reason for Deletion:

Outbreak Link Role: Child Outbreak Classification: Confirmed Primary Investigator: Xie, Lauren Primary Investigator Backup: - First Reported Date:

All counts are for Human Subjects only.

Outbreak Diseases ✓ Contains Data

Outbreak Classification Summary ✓ Contains Data

Outbreak Preset Signs & Symptoms Counts

Outbreak Preset Complications Counts

Outbreak Monitored Outcomes Counts

Outcome	Identified Count	Unidentified Count	% Investigations Identified w/ Outcome (Case Classifications)	% of Population Identified w/ Outcome (All Classifications)

The **Outbreak Summary** screen displays.

- Click **Complications** hyperlink in the **Outbreak Monitored Outcomes Counts** section.

Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak**
 - Outbreak Summary
 - Outbreak Details
 - Description
 - Declaration
 - Disease Summary
 - Outbreak Team
 - Reporting Source
 - User Defined Forms
 - Outbreak Subject Summary
 - Classification Summary
 - Investigations
 - Immunization Summary
 - Outbreak Groups
 - View Counts
 - Signs & Symptoms

Outcome Counts

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Outcome Counts

Subject Type: Human Subjects Non-Human Subjects

Classifications Included in Counts:

Not Included	Included
Contact Not Classified	Case - Confirmed Case - Probable Case - Person Under Investigation

Outcome Counts

Outbreak Group Name: Measles OB Subject Type: Human Subjects

Include Child Groups: - Population Denominator: 0 Total Number Identified: 0

Classifications Included: Case - Confirmed, Case - Probable, Case - Person Under Investigation

Outcome	Identified Count	Unidentified Count	% Investigations Identified w/ Outcome (Selected Classifications)	% of Population Identified w/ Outcome (All Classifications)

The **Outbreak Monitored Outcomes Counts** screen displays. This page provides a summary level view of the distribution of Preset Outcome types experienced by identified and unidentified counts by percentage.

From here, Users can view/sort both Preset and Non-Preset Outcomes by Parent and/or Child Groups. Further sorting by Classification is also available.

2.5 Outbreak Exposure Summary

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Outbreak Summary**.

The **Outbreak Summary** screen displays.

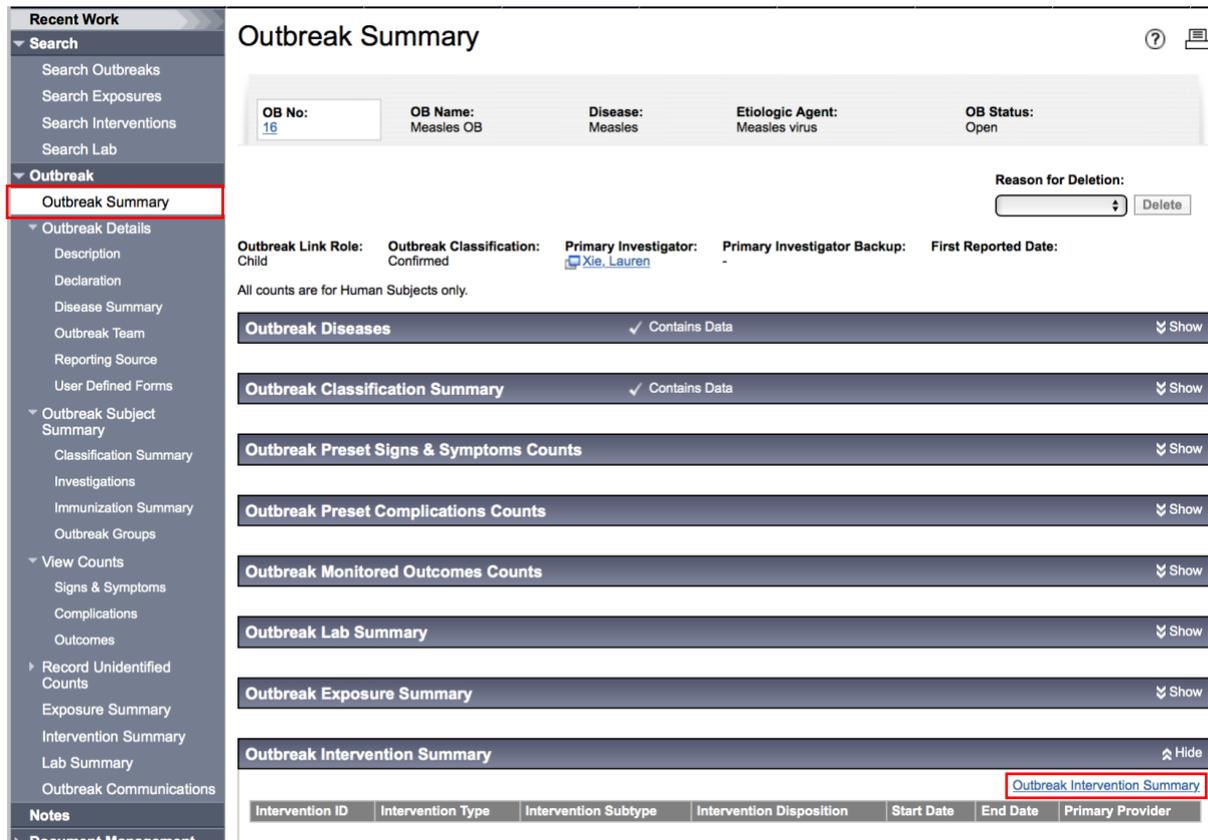
2. Click **Exposure Summary** hyperlink in the **Outbreak Exposure Summary** section.

The **Exposure Summary** displays. This page provides a summary level view of the Exposures associated to the Outbreak.

From here, the User can view/create/update and copy Transmission Events (TEs) associated to an investigation associated to the Outbreak.

2.6 Outbreak Interventions Summary

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Outbreak Summary**.



Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak
 - Outbreak Summary**
 - Outbreak Details
 - Description
 - Declaration
 - Disease Summary
 - Outbreak Team
 - Reporting Source
 - User Defined Forms
 - Outbreak Subject Summary
 - Classification Summary
 - Investigations
 - Immunization Summary
 - Outbreak Groups
 - View Counts
 - Signs & Symptoms
 - Complications
 - Outcomes
 - Record Unidentified Counts
 - Exposure Summary
 - Intervention Summary
 - Lab Summary
 - Outbreak Communications
- Notes
- Document Management

Outbreak Summary

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Reason for Deletion:

Outbreak Link Role: Child Outbreak Classification: Confirmed Primary Investigator: Xie, Lauren Primary Investigator Backup: - First Reported Date:

All counts are for Human Subjects only.

- Outbreak Diseases Contains Data
- Outbreak Classification Summary Contains Data
- Outbreak Preset Signs & Symptoms Counts
- Outbreak Preset Complications Counts
- Outbreak Monitored Outcomes Counts
- Outbreak Lab Summary
- Outbreak Exposure Summary
- Outbreak Intervention Summary

Intervention ID	Intervention Type	Intervention Subtype	Intervention Disposition	Start Date	End Date	Primary Provider
-----------------	-------------------	----------------------	--------------------------	------------	----------	------------------

The **Outbreak Summary** screen displays.

2. Click **Outbreak Intervention Summary** hyperlink in the **Outbreak Interventions Summary** section.

Intervention Summary



OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

Interventions								Hide Interventions
Row Actions: Add Follow Up								Create Intervention
Type	SubType	Disposition	Start Date	End Date	Provider			

Intervention Summary								Hide Intervention Summary
Disease: Measles (National, Predominant)								
Outbreak Group: Measles OB								
Type	SubType	Contact	Not Classified	Not a Case	Case - Confirmed	Case - Probable	Case - Person Under Investigation	

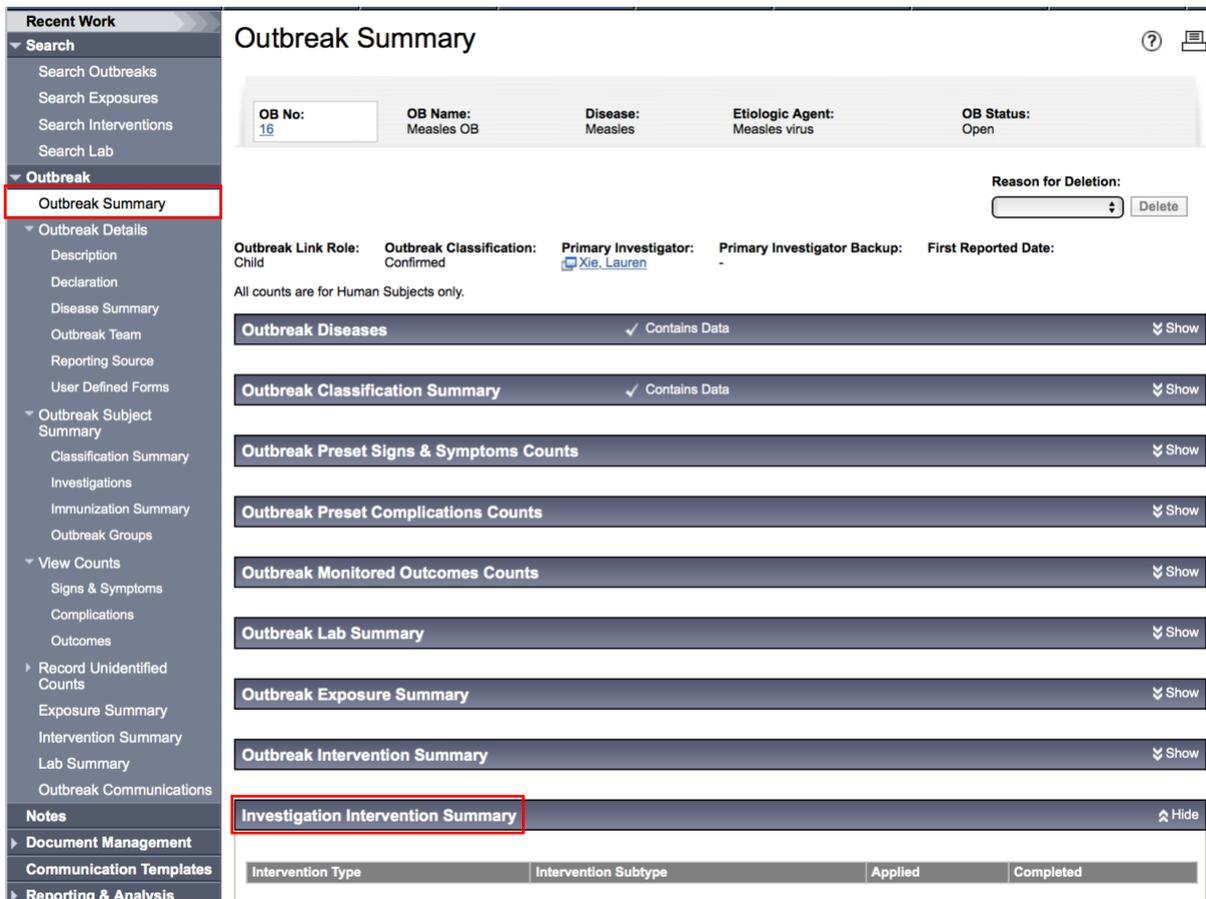
100 (35) refers to 100 Interventions for the Disease and Group, of which 35 are identified.

Interventions Summary displays. This page provides a summary level view of Interventions associated at the Outbreak level.

From here, the User can Create/Update/Follow-Up Interventions associated to an entire OB, Parent and/or individual Children.

2.7 Investigation Intervention Summary

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Outbreak Summary**.



Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak
 - Outbreak Summary**
 - Outbreak Details
 - Description
 - Declaration
 - Disease Summary
 - Outbreak Team
 - Reporting Source
 - User Defined Forms
 - Outbreak Subject Summary
 - Classification Summary
 - Investigations
 - Immunization Summary
 - Outbreak Groups
 - View Counts
 - Signs & Symptoms
 - Complications
 - Outcomes
 - Record Unidentified Counts
 - Exposure Summary
 - Intervention Summary
 - Lab Summary
 - Outbreak Communications
- Notes
- Document Management
- Communication Templates
- Reporting & Analysis

Outbreak Summary

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Reason for Deletion:

Outbreak Link Role: Child Outbreak Classification: Confirmed Primary Investigator: [Xie, Lauren](#) Primary Investigator Backup: - First Reported Date:

All counts are for Human Subjects only.

- Outbreak Diseases Contains Data
- Outbreak Classification Summary Contains Data
- Outbreak Preset Signs & Symptoms Counts
- Outbreak Preset Complications Counts
- Outbreak Monitored Outcomes Counts
- Outbreak Lab Summary
- Outbreak Exposure Summary
- Outbreak Intervention Summary
- Investigation Intervention Summary**

Intervention Type	Intervention Subtype	Applied	Completed
-------------------	----------------------	---------	-----------

The **Outbreak Summary** screen displays.

2. Scroll to **Investigation Intervention Summary**.

The **Investigation Intervention Summary displays** high-level Interventions created for the Outbreak but applied at the investigation/client level, as long as the intervention is documented as an Outbreak Intervention.

There is no hyperlink here. The User can access the client investigation record through the **Investigation Summary** within the **Investigations** module or from the **Investigations** screen in the Outbreak module.

3. From the **Left-Hand Navigation**, select **Intervention Summary**.

Recent Work

▼ Search

- Search Outbreaks
- Search Exposures
- Search Interventions
- Search Lab

▼ Outbreak

- Outbreak Summary
- ▼ Outbreak Details
 - Description
 - Declaration
 - Disease Summary
 - Outbreak Team
 - Reporting Source
 - User Defined Forms
- ▼ Outbreak Subject Summary
 - Classification Summary
 - Investigations
 - Immunization Summary
 - Outbreak Groups
- ▼ View Counts
 - Signs & Symptoms
 - Complications
 - Outcomes
- ▶ Record Unidentified Counts
 - Exposure Summary
 - Intervention Summary**
 - Lab Summary

Intervention Summary ? 🖨

OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

Interventions ⬆ Hide Interventions

Row Actions: Add Follow Up Create Intervention

	Type	SubType	Disposition	Start Date	End Date	Provider

Intervention Summary ⬆ Hide Intervention Summary

Disease: Measles (National, Predominant) ▾

Outbreak Group: Measles OB ▾

Type	SubType	Contact	Not Classified	Not a Case	Case - Confirmed	Case - Probable	Case - Person Under Investigation

100 (35) refers to 100 Interventions for the Disease and Group, of which 35 are identified.

The **Intervention Summary** screen displays.

From here, the User can view both the Interventions associated to the Outbreak as well as those that the Intervention(s) has been applied to.

2.8 Outbreak UDF

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Outbreak Summary**.

Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak
 - Outbreak Summary**
 - Outbreak Details
 - Description
 - Declaration
 - Disease Summary
 - Outbreak Team
 - Reporting Source
 - User Defined Forms
 - Outbreak Subject Summary
 - Classification Summary
 - Investigations
 - Immunization Summary
 - Outbreak Groups
 - View Counts
 - Signs & Symptoms
 - Complications
 - Outcomes
 - Record Unidentified Counts
 - Exposure Summary
 - Intervention Summary
 - Lab Summary
 - Outbreak Communications
- Notes
- Document Management
- Communication Templates
- Reporting & Analysis
- Notifications
- Communications Log
- Administration

Outbreak Summary

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Reason for Deletion:

Outbreak Link Role: Child Outbreak Classification: Confirmed Primary Investigator: [Xie, Lauren](#) Primary Investigator Backup: - First Reported Date:

All counts are for Human Subjects only.

- Outbreak Diseases Contains Data
- Outbreak Classification Summary Contains Data
- Outbreak Preset Signs & Symptoms Counts
- Outbreak Preset Complications Counts
- Outbreak Monitored Outcomes Counts
- Outbreak Lab Summary
- Outbreak Exposure Summary
- Outbreak Intervention Summary
- Investigation Intervention Summary
- Outbreak UDFs [Outbreak UDFs](#)

0 forms found. [Outbreak UDFs](#)

Instance ID	Form Name	Version	Status	Last Updated	Updated By
-------------	-----------	---------	--------	--------------	------------

The **Outbreak Summary** screen displays.

- Click **Outbreak UDFs** hyperlink in the **Outbreak UDFs** section.

WORK MGMT INVESTIGATIONS **OUTBREAKS** IMMUNIZATION FAMILY HEALTH INVENTORY ADMIN

Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak
 - Outbreak Summary
 - Outbreak Details
 - Description
 - Declaration
 - Disease Summary
 - Outbreak Team
 - Reporting Source
 - User Defined Forms
 - Outbreak Subject Summary
 - Classification Summary
 - Investigations
 - Immunization Summary
 - Outbreak Groups
 - View Counts

Outbreak UDFs

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Available Forms

0 forms found.

Form ID	Form Name	Form Description	Version	Required	Date Published	Associated Files (Version)
---------	-----------	------------------	---------	----------	----------------	----------------------------

Filled Out Forms

0 forms found.

Instance ID	Form Name	Form Description	Version	Needs Migration	Updates Allowed By	Status	Created By/On	Last Updated By/On
-------------	-----------	------------------	---------	-----------------	--------------------	--------	---------------	--------------------

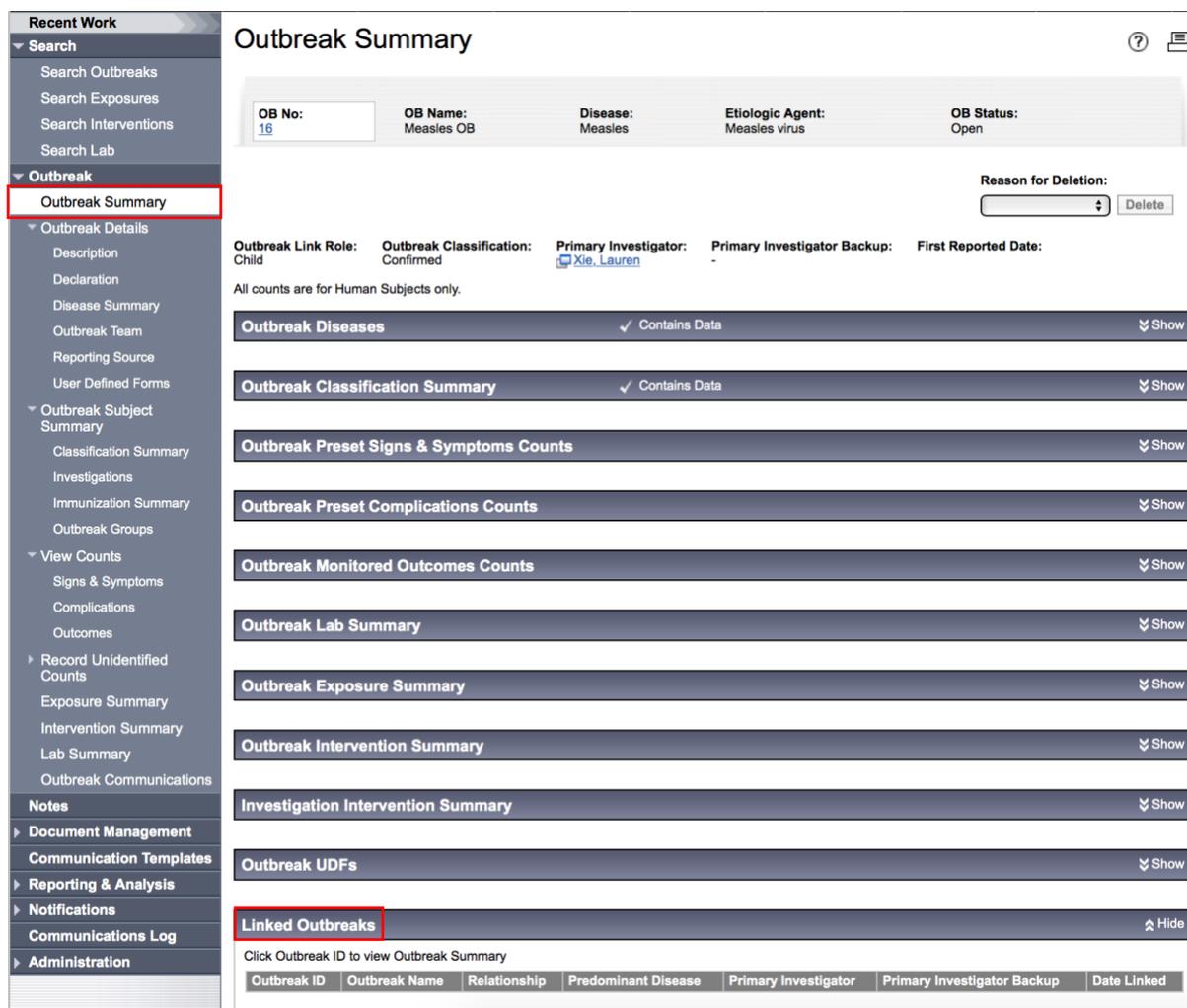
The **Outbreak UDFs** screen displays.

The User can view the UDFs that are associated to the OB and can complete the Outbreak Form from the **Available Forms** section.

Forms that have been filled out or are in draft will display in the **Filled Out Forms** section.

2.9 Link Outbreaks

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Outbreak Summary**.



Outbreak Summary

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Reason for Deletion:

Outbreak Link Role: Child Outbreak Classification: Confirmed Primary Investigator: Xie, Lauren Primary Investigator Backup: - First Reported Date:

All counts are for Human Subjects only.

- Outbreak Diseases Contains Data
- Outbreak Classification Summary Contains Data
- Outbreak Preset Signs & Symptoms Counts
- Outbreak Preset Complications Counts
- Outbreak Monitored Outcomes Counts
- Outbreak Lab Summary
- Outbreak Exposure Summary
- Outbreak Intervention Summary
- Investigation Intervention Summary
- Outbreak UDFs
- Linked Outbreaks**

Click Outbreak ID to view Outbreak Summary

Outbreak ID	Outbreak Name	Relationship	Predominant Disease	Primary Investigator	Primary Investigator Backup	Date Linked
-------------	---------------	--------------	---------------------	----------------------	-----------------------------	-------------

The **Outbreak Summary** screen displays.

2. Scroll to the **Linked Outbreaks** section which displays all Outbreaks linked to the Outbreak in Context.

There is no hyperlink in this section. **Linking Outbreaks** is done within the [Administration screen](#). A Parent Outbreak must be created in order to link related child outbreaks.

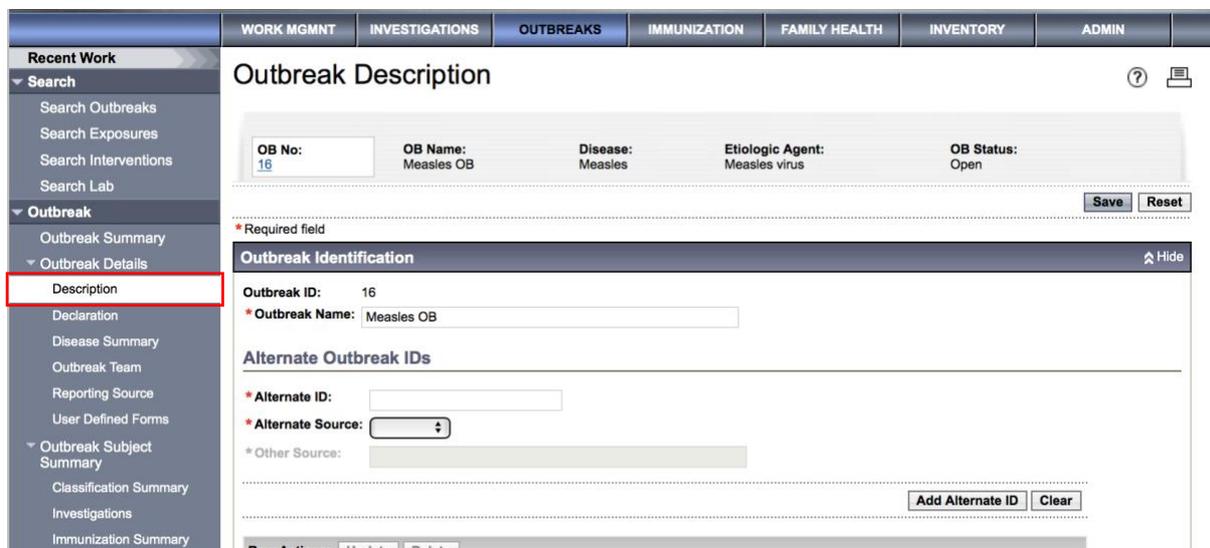
3 OUTBREAK DETAILS - OVERVIEW

The **Outbreak Details** section has the remaining tasks to complete the initial creation of an Outbreak record.

3.1 Description

With an outbreak in context, a user can view and revise the description of the outbreak and also view the history of the Responsible Organization.

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Description** under **Outbreak Details**.



The screenshot displays the 'Outbreak Description' screen. The left-hand navigation menu is on the left, with 'Description' highlighted under 'Outbreak Details'. The main content area shows the 'Outbreak Description' form. At the top, there are tabs for 'WORK MGMT', 'INVESTIGATIONS', 'OUTBREAKS', 'IMMUNIZATION', 'FAMILY HEALTH', 'INVENTORY', and 'ADMIN'. The 'OUTBREAKS' tab is selected. The form contains the following fields:

- OB No: 16
- OB Name: Measles OB
- Disease: Measles
- Etiologic Agent: Measles virus
- OB Status: Open

Below these fields are 'Save' and 'Reset' buttons. The 'Outbreak Identification' section is marked as a 'Required field' and contains:

- Outbreak ID: 16
- Outbreak Name: Measles OB

The 'Alternate Outbreak IDs' section contains:

- Alternate ID: (empty field)
- Alternate Source: (dropdown menu)
- Other Source: (empty field)

At the bottom of the 'Alternate Outbreak IDs' section are 'Add Alternate ID' and 'Clear' buttons. At the very bottom of the form are 'Update' and 'Delete' buttons.

The **Outbreak Description** screen displays. The majority of the Outbreak Description fields will have been completed when creating an Outbreak. Reference [Section 2.1](#) to update the Outbreak Description.

3.2 Declaration

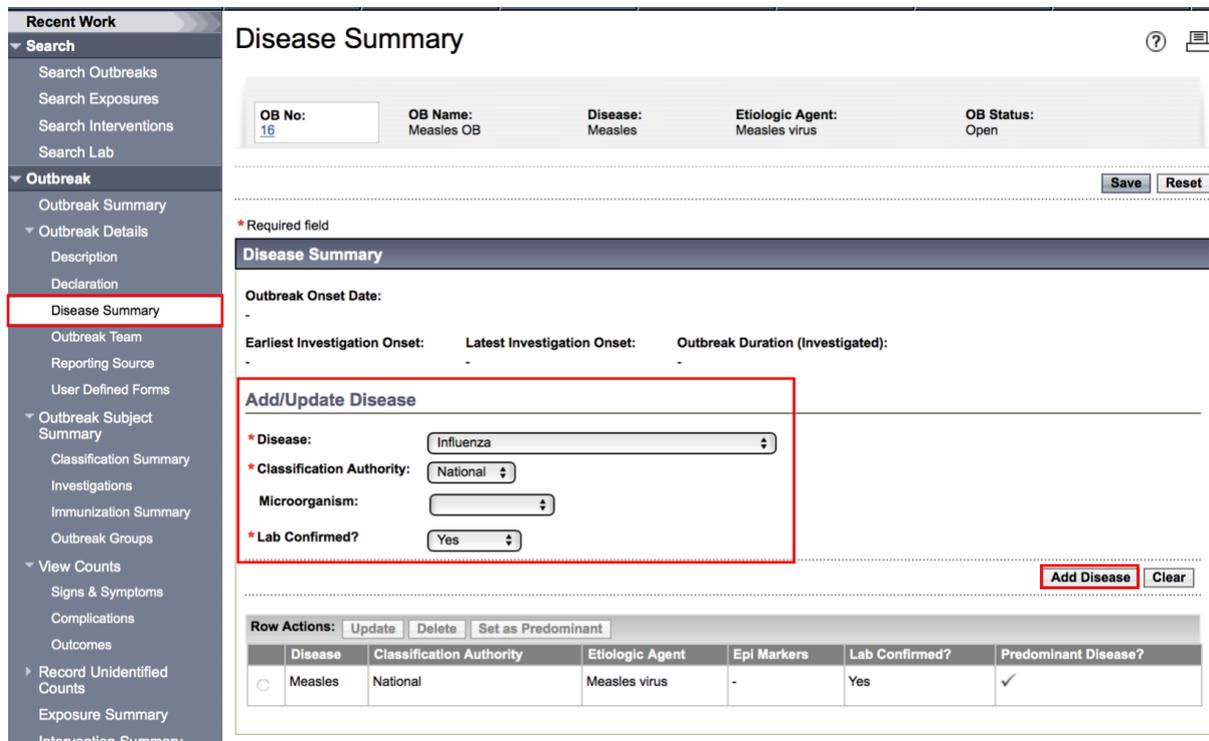
1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Declaration** under **Outbreak Details**.

3.3 Disease Summary

This screen allows users to view or edit details regarding the disease(s) of the outbreak in context.

Note: An outbreak only becomes fully operational when an outbreak disease and outbreak reporting notification has been added. Until then, users will not be allowed to add investigations, link the outbreak, enter unidentified aggregate counts, or add outbreak presets.

1. After setting an Outbreak in Context in the Outbreak Module, naviga to the **Left-Hand Navigation** menu and select **Disease Summary** under **Outbreak Details**.



Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak
 - Outbreak Summary
 - Outbreak Details
 - Description
 - Declaration
 - Disease Summary**
 - Outbreak Team
 - Reporting Source
 - User Defined Forms
 - Outbreak Subject Summary
 - Classification Summary
 - Investigations
 - Immunization Summary
 - Outbreak Groups
 - View Counts
 - Signs & Symptoms
 - Complications
 - Outcomes
 - Record Unidentified Counts
 - Exposure Summary
 - Intervention Summary

Disease Summary

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Save Reset

* Required field

Disease Summary

Outbreak Onset Date: -

Earliest Investigation Onset: Latest Investigation Onset: Outbreak Duration (Investigated): -

Add/Update Disease

* Disease: Influenza

* Classification Authority: National

Microorganism:

* Lab Confirmed? Yes

Add Disease Clear

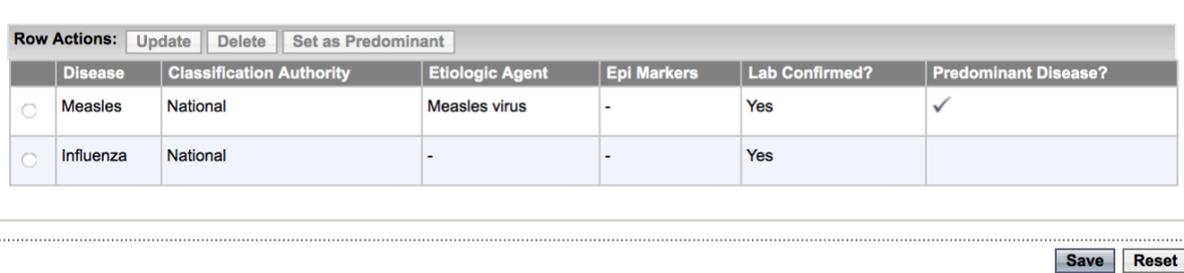
Row Actions: Update Delete Set as Predominant

	Disease	Classification Authority	Etiologic Agent	Epi Markers	Lab Confirmed?	Predominant Disease?
<input type="radio"/>	Measles	National	Measles virus	-	Yes	✓
<input type="radio"/>	Influenza	National	-	-	Yes	

Save Reset

The **Disease Summary** screen displays.

2. Additional diseases can be added to the Outbreak by entering all relevant information, then click **Add Disease**.



Row Actions: Update Delete Set as Predominant

	Disease	Classification Authority	Etiologic Agent	Epi Markers	Lab Confirmed?	Predominant Disease?
<input type="radio"/>	Measles	National	Measles virus	-	Yes	✓
<input type="radio"/>	Influenza	National	-	-	Yes	

Save Reset

The new disease is added to the Disease Table below.

- Existing diseases can be updated by clicking the button beside the disease and activating the Row Actions, and then clicking **Update**.

Row Actions: Update Delete Set as Predominant						
	Disease	Classification Authority	Etiologic Agent	Epi Markers	Lab Confirmed?	Predominant Disease?
<input checked="" type="radio"/>	Measles	National	Measles virus	-	Yes	✓
<input type="radio"/>	Influenza	National	-	-	Yes	

- Enter any updates in the disease information populated in the fields above, followed by clicking **Apply Update**.

Add/Update Disease

* Disease:

* Classification Authority:

Microorganism:

Genotype:

Epi Markers

Epi Marker:

Value:

Row Actions:

Epi Marker	Value

* Lab Confirmed?

Changes will be reflected in the updated Disease Table.

- When there are more than 1 disease in the table, the predominant disease can be changed by clicking the radio button beside the disease to be changed to **Predominant Disease**, then clicking **Set as Predominant** button.

Row Actions: Update Delete Set as Predominant						
	Disease	Classification Authority	Etiologic Agent	Epi Markers	Lab Confirmed?	Predominant Disease?
<input type="radio"/>	Measles	National	Measles virus	-	Yes	✓
<input checked="" type="radio"/>	Influenza	National	-	-	Yes	

The Predominate Disease now moves to the top of the table and has the Predominant Disease check beside it.

Row Actions: <input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Set as Predominant"/>						
	Disease	Classification Authority	Etiologic Agent	Epi Markers	Lab Confirmed?	Predominant Disease?
<input checked="" type="radio"/>	Influenza	National	-	-	Yes	<input checked="" type="checkbox"/>
<input type="radio"/>	Measles	National	Measles virus	-	Yes	

6. To delete a disease, the User clicks the button beside the disease to delete then clicks **Delete**.

Row Actions: <input type="button" value="Update"/> <input checked="" type="button" value="Delete"/> <input type="button" value="Set as Predominant"/>						
	Disease	Classification Authority	Etiologic Agent	Epi Markers	Lab Confirmed?	Predominant Disease?
<input type="radio"/>	Influenza	National	-	-	Yes	<input checked="" type="checkbox"/>
<input checked="" type="radio"/>	Measles	National	Measles virus	-	Yes	

The disease will be removed from the table.

Row Actions: <input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Set as Predominant"/>						
	Disease	Classification Authority	Etiologic Agent	Epi Markers	Lab Confirmed?	Predominant Disease?
<input type="radio"/>	Influenza	National	-	-	Yes	<input checked="" type="checkbox"/>

Note:

- The Delete and Set as Predominant Disease activate only when there is more than one disease in the table.
- The disease checked as Predominant Disease cannot be deleted.

7. Once all information has been added and/or updates have been made, click **Save**.

Disease Summary



OB No: <input type="text" value="16"/>	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
Outbreak Disease(s) successfully saved				
<input type="button" value="Save"/> <input type="button" value="Reset"/>				

Screen refreshes and confirmation message “Outbreak Disease(s) successfully saved” displays.

Workgroup Membership
Hide Workgroup Administrators

Security Role:

Row Actions:

	Name (User or Workgroup)	Identifier	Organizational Name/Details	Supervisor	Role
<input type="radio"/>	Xie,Lauren	xiel12	Antigonish Public Health Office	<input checked="" type="checkbox"/>	OB_ADMIN
<input type="radio"/>	MacKirby, Susan	mackirse	Nova Scotia Health Authority	<input type="checkbox"/>	PHI_OBI

Total: 2
Page 1 of 1
Jump to page:

Parent Workgroups:
Hide Parent Workgroups

Parent Workgroups:

Workgroup Administrators
Hide Workgroup Administrators

To be a Workgroup Administrator the user must already be a member of the workgroup, as specified above:

* Workgroup Administrator:

Workgroup Administrator 2:

The Team Member is now assigned to the Security Role in the Workgroup Membership table. The User can assign this role to other Team Members and/or click **Search** again to **Select and Return** a different role to assign as needed.

8. Once all team members have been assigned a role and at least 1 Workgroup Administrator has been assigned, Click **Submit**.

View/Update Workgroup

Workgroup updated successfully.

* Required field

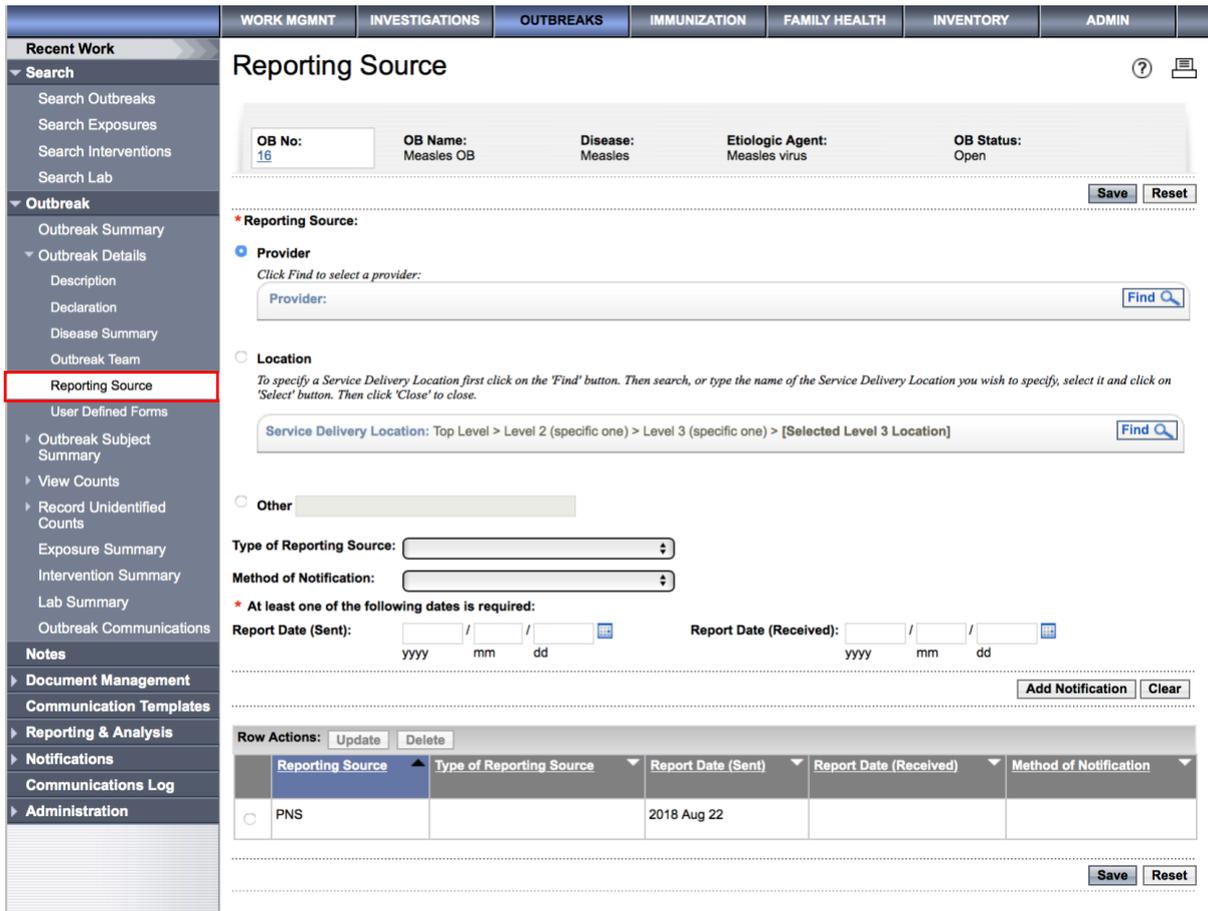
Page refreshes and confirmation message “Workgroup updated successfully” displays.

9. To navigate back to the Outbreak Module, Select the **Outbreak** Tab from the Top Navigation Bar, or click on recent work, or the **Outbreak ID** hyperlink to put the outbreak in Context.

3.4 Reporting Source

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Reporting Source** under **Outbreak Details**.

When initially creating the Outbreak, it is mandatory to enter **Provider, Location, or Other** as a Reporting Source, and therefore this section should already contain information.



Reporting Source

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

***Reporting Source:**

Provider
Click Find to select a provider:
Provider:

Location
To specify a Service Delivery Location first click on the 'Find' button. Then search, or type the name of the Service Delivery Location you wish to specify, select it and click on 'Select' button. Then click 'Close' to close.
Service Delivery Location: Top Level > Level 2 (specific one) > Level 3 (specific one) > [Selected Level 3 Location]

Other

Type of Reporting Source:

Method of Notification:

* At least one of the following dates is required:
Report Date (Sent): / / Report Date (Received): / /

Reporting Source	Type of Reporting Source	Report Date (Sent)	Report Date (Received)	Method of Notification
<input type="radio"/> PNS		2018 Aug 22		

Reporting Source page displays. From this screen **Reporting Sources** can be updated.

2. To update Reporting Sources, click the button beside the **Reporting Source** to be updated to activate Row Actions, then click **Update**.



Reporting Source	Type of Reporting Source	Report Date (Sent)	Report Date (Received)	Method of Notification
<input checked="" type="radio"/> PNS		2018 Aug 22		

3. Update information as needed and click **Apply Update**.

Location Nova Pharmacy

To specify a Service Delivery Location first click on the 'Find' button. Then search, or type the name of the Service Delivery Location you wish to specify, select it and click on 'Select' button. Then click 'Close' to close.

Service Delivery Location: Panorama Cloud > Province of Nova Scotia > Department of Health and Wellness > Nova Scotia Health Authority > Central Zone > Halifax Public Health Office > [Nova Pharmacy] Find 

Close 

Type
Search

Start typing the name of the Service Delivery Location. Matches will begin to appear below.
Select the match with the keyboard or mouse.

SDL Name:

City, Province:
Halifax, Nova Scotia

Status:
Active

Show Info

Select

Other

Type of Reporting Source:

Method of Notification:

* At least one of the following dates is required:

Report Date (Sent): / / 
yyyy mm dd

Report Date (Received): / / 
yyyy mm dd

4. Verify that the new information has been updated and recorded in the **Reporting Sources** table.

Row Actions:	Update	Delete			
Reporting Source	Type of Reporting Source	Report Date (Sent)	Report Date (Received)	Method of Notification	
<input type="radio"/>	Nova Pharmacy		2018 Aug 22		

5. Click **Save**.

Reporting Source



OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
--------------	------------------------	---------------------	-----------------------------------	--------------------

Reporting source saved

[Save](#) [Reset](#)

* Reporting Source

Screen refreshes and confirmation message “Reporting source saved” displays.

6. To add another Reporting Source, select the appropriate **Reporting Source**.
7. If applicable, select **Type of Reporting Source**, **Method of Notification**, **Report Date (Sent)**, and **Report Date (Received)**.

[Save](#) [Reset](#)

* Reporting Source:

Provider
Click Find to select a provider:

Provider: [Find](#)

Location
To specify a Service Delivery Location first click on the 'Find' button. Then search, or type the name of the Service Delivery Location you wish to specify, select it and click on 'Select' button. Then click 'Close' to close.

Service Delivery Location: Top Level > Level 2 (specific one) > Level 3 (specific one) > [Selected Level 3 Location] [Find](#)

Other

Type of Reporting Source:

Method of Notification:

* At least one of the following dates is required:

Report Date (Sent): / / / /

Report Date (Received): / / / /

[Add Notification](#) [Clear](#)

Row Actions:		Update	Delete	
Reporting Source	Type of Reporting Source	Report Date (Sent)	Report Date (Received)	Method of Notification
<input type="radio"/> Nova Pharmacy		2018 Aug 22		

[Save](#) [Reset](#)

8. Click **Add Notification** when all information has been entered.

Row Actions:

	Reporting Source ▲	Type of Reporting Source ▼	Report Date (Sent) ▼	Report Date (Received) ▼	Method of Notification ▼
<input type="radio"/>	Nova Pharmacy		2018 Aug 22		
<input type="radio"/>	Other Source Example	Other	2018 Aug 22		Mail

Newly added Reporting Source will display in the Reporting Source table.

- Click **Save**.

Reporting Source

?

OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
--------------	------------------------	---------------------	-----------------------------------	--------------------

Reporting source saved

* Reporting Source *

Screen refreshes and confirmation message “Reporting source saved” displays.

3.5 User Defined Form

- After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **User Defined Forms** under **Outbreak Details**.

	WORK MGMT	INVESTIGATIONS	OUTBREAKS	IMMUNIZATION	FAMILY HEALTH	INVENTORY	ADMIN
Recent Work							
Search							
Search Outbreaks							
Search Exposures							
Search Interventions							
Search Lab							
Outbreak							
Outbreak Summary							
Outbreak Details							
Description							
Declaration							
Disease Summary							
Outbreak Team							
Reporting Source							
User Defined Forms							
Outbreak Subject Summary							
Classification Summary							
Investigations							
Immunization Summary							
Outbreak Groups							

Outbreak UDFs ?

OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
--------------	------------------------	---------------------	-----------------------------------	--------------------

Outbreak UDFs Hide Outbreak UDFs

Available Forms Hide Available Forms

0 forms found. Click on radio button to select.

Row actions:

Form ID	Form Name	Form Description	Version	Required	Date Published	Associated Files (Version)

Filled Out Forms Hide Filled Out Forms

0 forms found. Click on Instance ID to view Form. Click on radio button to select.

Row actions:

Instance ID	Form Name	Form Description	Version	Needs Migration	Updates Allowed By	Status	Created By/On	Last Updated By/On

The **Outbreak UDFs** screen displays.

2. From the **User Defined Forms (UDF)** section, click the radio button next to the form to be completed.
3. Click **Fill Out Form**.

The selected UDF displays in a new window.

4. Enter data in the UDF as applicable.
5. Click **Save as Draft** or **Submit** upon completion.

Confirmation messages, 'Your data has been successfully saved' and 'You may now close this window' displays.

4 OUTBREAK SUBJECT SUMMARY – OVERVIEW

Outbreak Subject Summary allows Users to manage Investigations within an Outbreak. An Outbreak may have Identified Investigations (i.e. those that exist in the Investigations Management module) or Unidentified ones (i.e. where the system only maintains an aggregate count without further details).

An Outbreak may contain exclusively Identified or Unidentified Investigations, but typically it has both and is referred to as a “Hybrid” Outbreak.

For example, an Outbreak in a Long-term Care Facility may have 30 affected individuals, three of whom are specifically Identified since they have been lab-confirmed, and 27 that exist as an aggregate group but not as individual Subjects or Investigations in the system (i.e. Unidentified). In this case, the three Identified individuals exist in the system as Subjects with associated Investigations. The attributes for these individuals can be queried independently and as part of the Group, without double counting the Investigations (e.g. the Outbreak affects 30, not 33 individuals).

Data are often collected for epidemiologically-relevant groups within an Outbreak (e.g. separate counts of staff and residents ill and exposed, counts of cases/contacts by school grade or by hospital). Relevant Outbreak Groups may be defined by the User with associated data about the Group. Outbreak Subject Management is comprised of multiple screens, allowing the User to perform the different tasks.

Outbreak subject management enables a User to:

1. View a grid summary of the total number of investigations in an outbreak, stratified by group and outbreak case classification (outbreak classification summary screen)
2. View and maintain a list of investigations associated with a group and navigate to the detailed investigation record (maintain outbreak investigations screen)
3. View and maintain a list of groups associated with an outbreak (outbreak groups screen)
4. View and maintain counts of unidentified aggregate individuals (maintain unidentified aggregate counts screen)

4.1 Create Outbreak Groups

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Outbreak Groups** under **Outbreak Subject Summary**.

WORK MGMT | INVESTIGATIONS | **OUTBREAKS** | IMMUNIZATION | FAMILY HEALTH | INVENTORY | ADMIN

Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak
 - Outbreak Summary
 - Outbreak Details
 - Description
 - Declaration
 - Disease Summary
 - Outbreak Team
 - Reporting Source
 - User Defined Forms
 - Outbreak Subject Summary
 - Classification Summary
 - Investigations
 - Immunization Summary
 - Outbreak Groups**
 - View Counts
 - Record Unidentified Counts
 - Exposure Summary
 - Intervention Summary
 - Lab Summary
 - Outbreak Communications
- Notes
- Document Management

Outbreak Groups

OB No: 16 | OB Name: Measles OB | Disease: Measles | Etiologic Agent: Measles virus | OB Status: Open

* Required field

Outbreak Groups

Parent Group Name:

* Group Name:

Liaison Name:

Phone: () -
 Fax: () -
 Email:
 Other:

Population Denominator:

Description:

(2000 characters)

Row Actions:

	Group Name	Liaison Name	Liaison Contact	Population Denominator
<input type="radio"/>	Measles OB			

The **Outbreak Groups** screen displays.

- Click the radio button beside the Outbreak Group to which you want to add a Child Group (aka subgroup).

Note: The Outbreak Name is automatically used for the root, or Master Group, also known as the Parent Group. This name cannot be updated.

Row Actions:

	Group Name	Liaison Name	Liaison Contact	Population Denominator
<input checked="" type="radio"/>	Measles OB			

- Click **Add Child Group**.

Outbreak Groups



OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

* Required field

Outbreak Groups

Parent Group Name: Measles OB

* **Group Name:**

Liaison Name:

Phone: () -

Fax: () -

Email:

Other:

Population Denominator:

Description:

(2000 characters)

Screen refreshes and the selected group appears as the **Parent Group Name** in the Outbreak Groups section of the screen.

Note: All Child Groups (subgroups) that are created are added as subgroups to the Master/Parent Outbreak Group. The group hierarchy is limited to three levels, where the Master/Parent Group is the first level.



Tip: Child Groups can be organized by cohort such as residents, staff, or around physical locations such as rooms or floors in a facility.

- In the **Group Name** field, enter the name of the Child Group (aka subgroup).
- If applicable, enter **Liaison Name** (name of the contact person for the group) and select a method of communication with communication details.

Note: Users are only able to enter one contact information type (either Phone; Fax; Email; Other) at any given time. The system will only display one contact number in the **Liaison Contact** field (i.e., adding a fax number will delete the previously recorded phone number for the contact).

- If applicable, enter the **Population Denominator** (the total number of clients within this group).

* Required field

Outbreak Groups

Parent Group Name: Measles OB

* Group Name:

Liaison Name:

Phone: () -
 Fax: () -
 Email:
 Other:

Population Denominator:

Description:

(2000 characters)

7. Click **Add Group**.

Row Actions:

	Group Name	Liaison Name	Liaison Contact	Population Denominator
<input checked="" type="radio"/>	Measles OB			
<input type="radio"/>	> PNS Staff	Lauren Xie	Pager: 11111	

Each subgroup (Child) is displayed in table below the main (parent) outbreak in the Outbreaks Group table.

8. Repeat steps 2 to 7 until all Child Groups are entered.
9. Click **Save**.

Outbreak Groups

? 

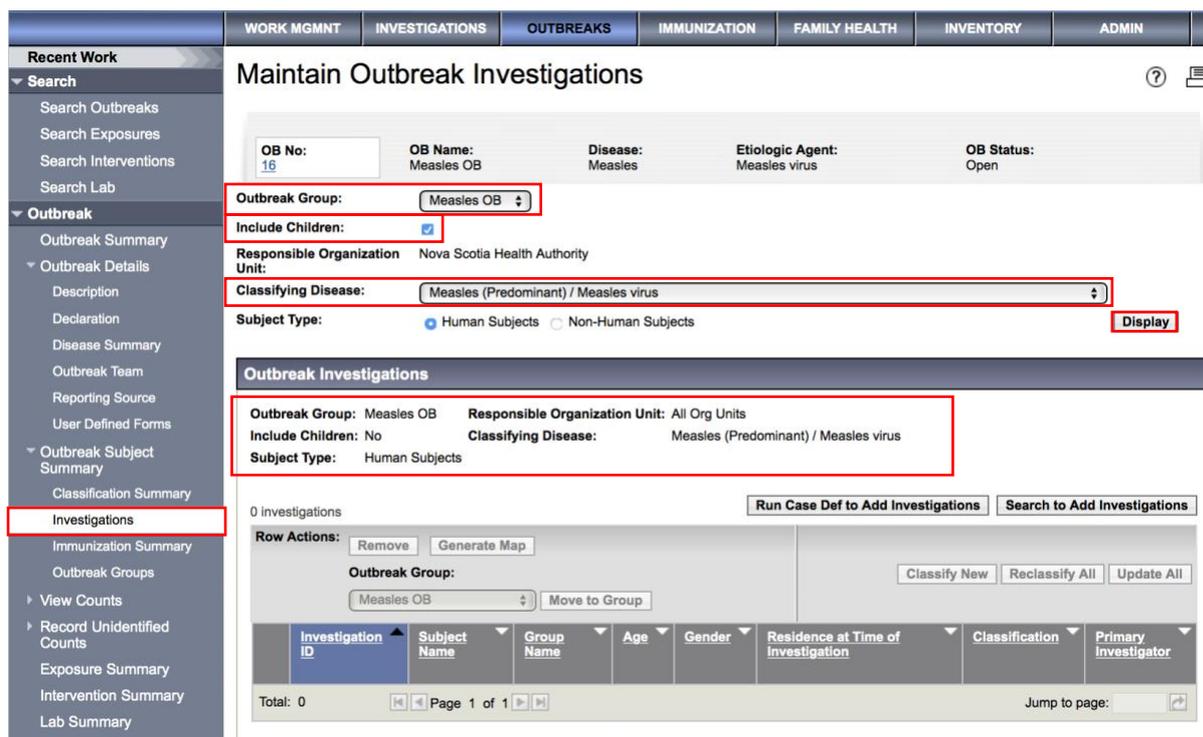
OB No: <input type="text" value="16"/>	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---	------------------------	---------------------	-----------------------------------	--------------------

The Outbreak Groups data has been saved.
* Required field

Screen refreshes and confirmation message “The Outbreak Group data has been saved” displays.

4.2 Investigations

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Investigations** under **Outbreak Subject Summary**.



The screenshot displays the 'Maintain Outbreak Investigations' screen. The sidebar on the left has 'Investigations' highlighted. The main content area is divided into several sections:

- Form Fields:**
 - OB No: 16
 - OB Name: Measles OB
 - Disease: Measles
 - Etiologic Agent: Measles virus
 - OB Status: Open
 - Outbreak Group: Measles OB (dropdown)
 - Include Children:
 - Responsible Organization Unit: Nova Scotia Health Authority
 - Classifying Disease: Measles (Predominant) / Measles virus (dropdown)
 - Subject Type: Human Subjects Non-Human Subjects
 - Display button
- Outbreak Investigations Summary:**
 - Outbreak Group: Measles OB
 - Responsible Organization Unit: All Org Units
 - Include Children: No
 - Classifying Disease: Measles (Predominant) / Measles virus
 - Subject Type: Human Subjects
- Table:**
 - 0 Investigations
 - Buttons: Run Case Def to Add Investigations, Search to Add Investigations
 - Row Actions: Remove, Generate Map
 - Outbreak Group: Measles OB (dropdown), Move to Group button
 - Buttons: Classify New, Reclassify All, Update All
 - Table Headers: Investigation ID, Subject Name, Group Name, Age, Gender, Residence at Time of Investigation, Classification, Primary Investigator
 - Footer: Total: 0, Page 1 of 1, Jump to page: [input]

Maintain Outbreak Investigations screen displays.

2. Choose the parent group along with the Child Groups by ensuring that the **Outbreak Group** field displays the **Parent Group** and the **Include Children** box is checked.
3. Select the **Classifying Disease** and click **Display**. The investigation details will display in the **Outbreak Investigation** section.

WORK MGMT | INVESTIGATIONS | **OUTBREAKS** | IMMUNIZATION | FAMILY HEALTH | INVENTORY | ADMIN

Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak
 - Outbreak Summary
 - Outbreak Details
 - Description
 - Declaration
 - Disease Summary
 - Outbreak Team
 - Reporting Source
 - User Defined Forms
 - Outbreak Subject Summary
 - Classification Summary
- Investigations
 - Immunization Summary
 - Outbreak Groups
 - View Counts
 - Record Unidentified Counts
 - Exposure Summary
 - Intervention Summary
 - Lab Summary

Maintain Outbreak Investigations

OB No: 16 | OB Name: Measles OB | Disease: Measles | Etiologic Agent: Measles virus | OB Status: Open

Outbreak Group: Measles OB

Include Children:

Responsible Organization Unit: Nova Scotia Health Authority

Classifying Disease: Measles (Predominant) / Measles virus

Subject Type: Human Subjects Non-Human Subjects Display

Outbreak Investigations

Outbreak Group: Measles OB | Responsible Organization Unit: All Org Units

Include Children: No | Classifying Disease: Measles (Predominant) / Measles virus

Subject Type: Human Subjects

0 investigations Run Case Def to Add Investigations Search to Add Investigations

Row Actions: Remove Generate Map

Outbreak Group: Measles OB Move to Group Classify New Reclassify All Update All

Investigation ID	Subject Name	Group Name	Age	Gender	Residence at Time of Investigation	Classification	Primary Investigator
Total: 0							

Page 1 of 1 | Jump to page: []

4.2.1 Add Investigation to Outbreak

- An Investigation can be added by clicking **Search To Add Investigations**.

Search Investigations - Basic

OB No: 16 | OB Name: Measles OB | Disease: Measles | Etiologic Agent: Measles virus | OB Status: Open

Search Criteria Hide Search Criteria

Wildcard characters % (multiple letters) and _ (singleletters) can be used when searching by First or Last Name -except when matching phonetically. Wildcard-only searches not allowed.

Disease / Basic Criteria Hide Disease / Basic Criteria

Include: Human Non-Human Both

Search by:

Investigation ID: []

Investigation Group: []

Outbreak Group: [] Search Outbreak

Disease Event ID: []

Report Date (Received) Range: From: [] / [] / [] To: [] / [] / []
 yyyy mm dd yyyy mm dd

Encounter Group: []

The **Search Investigations – Basic** screen displays.

- Enter **Report Date Range**, **Encounter Group**, or **Disease** search criteria.

6. Click **Search**.

Disease Event ID:

Report Date (Received) Range: From: / / To: / /
yyyy mm dd yyyy mm dd

Encounter Group:

Disease:

Authority:

Classification:

Microorganism:

Site(s): CTRL + click to select multiples

Staging:

PHAC Notification Status: Provincial Notification Status:

Co-managed Disease:

Outstanding Recommendations

Exclude Outbreak ID:

[Advanced Search](#)

Investigation Search Results

2 results found. Inactive investigation(s) are not shown Click Investigation ID to view Investigation Summary.

Row Actions:

Investigation ID	Last Name, First Name	Date of Birth	Disease / Disease Event ID / Primary Authority / Classification	Reporting Date Received
<input type="checkbox"/> 226 ✓	EKM Demo, Sprint 7	1998 Jun 2	Measles 230 / National / Case - Not a Case	2018 Aug 18
<input type="checkbox"/> 13 ✓	Laurel, Daphne	1994 May 11	Measles 15 / National / Case - Probable	2018 May 4
<input type="checkbox"/> 220 ✓	LMTEST1, LMTEST1	1981 Jan 1	Measles 224 / National / Case - Confirmed	2018 Aug 16
<input type="checkbox"/> 145 ✓	LMTEST1, LMTEST1	1981 Jan 1	Measles 148 / National / Case - Confirmed	2018 Jul 12

The **Investigations Search Results** section displays the search results.

- Review and select pertinent Investigations. The **Select All** button can be used to check all investigations in search results.

22 results found. Inactive investigation(s) are not shown. Click Investigation ID to view Investigation Summary.

Row Actions:

	Investigation ID	Last Name, First Name	Date of Birth	Disease / Disease Event ID / Primary Authority / Classification	Reporting Date Received
<input type="checkbox"/>	2	Test001, Test001	1990 Sep 9	Measles 2 / Manual / Case - Person Under Investigation	2018 Mar 27
<input checked="" type="checkbox"/>	167	Test1, Lauren	1977 Aug 1	Measles 170 / National / Case - Person Under Investigation	2018 Aug 8
<input type="checkbox"/>	180	Test1, Lauren	1977 Aug 1	Measles 183 / National / Case - Person Under Investigation	2018 Aug 9

8. Click **Select and Return**.

Maintain Outbreak Investigations ?

OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
------------------------------	------------------------	---------------------	-----------------------------------	--------------------

1 investigations have been added to the Outbreak successfully.
If added investigations correspond to previously unidentified investigations, you should decrement the unidentified aggregate counts.

Screen refreshes and confirmation message, “[# of Investigations selected] investigations have been added to the Outbreak successfully. If added investigations correspond to previously unidentified investigations, you should decrement aggregate counts” displays.

9. The Investigations can now be saved into the **Child Groups** by clicking the radio button(s) beside the Investigation ID row(s), then select the **Child Group** in the **Outbreak Group** to move the investigations into, and then clicking **Move to Group**.

Maintain Outbreak Investigations



OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

1 investigations have been added to the Outbreak successfully.
If added investigations correspond to previously unidentified investigations, you should decrement the unidentified aggregate counts.

Outbreak Group: Measles OB

Include Children:

Responsible Organization Unit: Nova Scotia Health Authority

Classifying Disease: Measles (Predominant) / Measles virus

Subject Type: Human Subjects Non-Human Subjects **Display**

Outbreak Investigations							
Outbreak Group: Measles OB		Responsible Organization Unit: All Org Units					
Include Children: No		Classifying Disease: Measles (Predominant) / Measles virus					
Subject Type: Human Subjects							
Click Investigation ID to view Investigation Summary.				Run Case Def to Add Investigations		Search to Add Investigations	
1 investigations							
Row Actions:							
Remove		Generate Map					
Outbreak Group:		Classify New Reclassify All Update All					
<input checked="" type="checkbox"/> Measles OB <input type="checkbox"/> > PNS Staff		Move to Group					
Invest ID	Name	Group Name	Age	Gender	Residence at Time of Investigation	Classification	Primary Investigator
<input checked="" type="checkbox"/> 167	Test1, Lauren	Measles OB	41	Female	-	Case - Person Under Investigation	-
Total: 1		Page 1 of 1				Jump to page:	

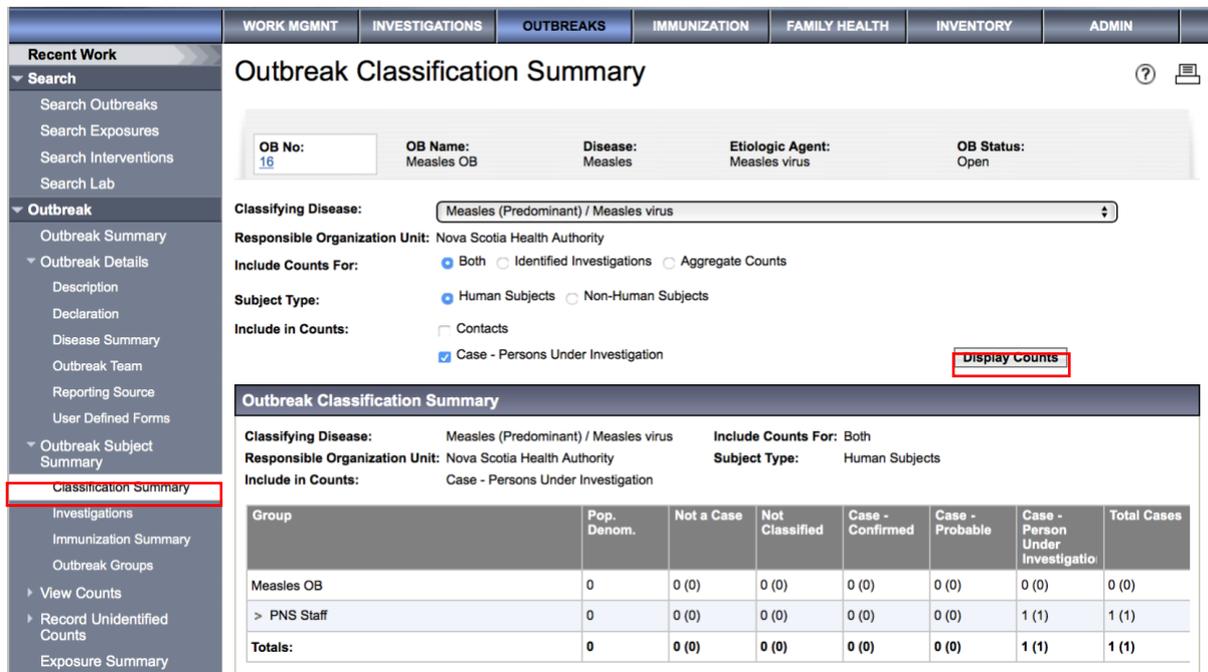
Outbreak Investigations							
1 investigations have been moved successfully.							
Outbreak Group: Measles OB		Responsible Organization Unit: All Org Units					
Include Children: Yes		Classifying Disease: Measles (Predominant) / Measles virus					
Subject Type: Human Subjects							

Screen refreshes and confirmation message displays.

4.3 Classification Summary

The **Outbreak Classification Summary** screen displays the number of Investigations, both Identified and Unidentified, by Group.

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Classification Summary** under **Outbreak Subject Summary**.



Outbreak Classification Summary

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Classifying Disease: Measles (Predominant) / Measles virus

Responsible Organization Unit: Nova Scotia Health Authority

Include Counts For: Both Identified Investigations Aggregate Counts

Subject Type: Human Subjects Non-Human Subjects

Include in Counts: Contacts Case - Persons Under Investigation

Display Counts

Group	Pop. Denom.	Not a Case	Not Classified	Case - Confirmed	Case - Probable	Case - Person Under Investigation	Total Cases
Measles OB	0	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
> PNS Staff	0	0 (0)	0 (0)	0 (0)	0 (0)	1 (1)	1 (1)
Totals:	0	0 (0)	0 (0)	0 (0)	0 (0)	1 (1)	1 (1)

The **Outbreak Classification Summary** screen displays.

- Information can be filtered and sorted for both Identified and Unidentified Counts by changing the display criteria, then clicking **Display Counts**.

Note: The numbers that display within brackets represent identified classifications counts. The numbers outside of the brackets represent the unidentified classification counts.

Any updates of classifications, the number of Identified and Unidentified counts, or sorting by Parent or Child will impact the numbers.

When Unidentified Clients become Identified Clients, the User needs to make sure that the decrement of the Unidentified client is offset by creating a record for the newly Identified Client and adding them to a Group.

4.4 Immunization Summary

The **Outbreak Immunization Summary** screen allows an Investigator to see a limited Immunization Summary for the Antigen(s) associated with one of the Outbreak Diseases, for a filtered list of Clients in the Outbreak. The Summary includes the number of valid doses and any Agents containing those Antigens that the client is eligible or overdue for according to their current Immunization Forecast.

- After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Immunization Summary** under **Outbreak Subject Summary**.

WORK MGMT | INVESTIGATIONS | **OUTBREAKS** | IMMUNIZATION | FAMILY HEALTH | INVENTORY | ADMIN

Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak
 - Outbreak Summary
 - Outbreak Details
 - Outbreak Subject Summary
 - Classification Summary
 - Investigations
 - Immunization Summary**
 - Outbreak Groups
 - View Counts
 - Record Unidentified

Outbreak Immunization Summary

OB No: 16 | OB Name: Measles OB | Disease: Measles | Etiologic Agent: Measles virus | OB Status: Open

Outbreak Group: Measles OB

Include Children:

Responsible Organization Unit: Nova Scotia Health Authority

Include Contacts:

Disease/Etiologic Agent: Measles (Predominant) / Measles virus

Associated Antigen(s): Immune globulin (Ig) Measles (M)

Display

The **Outbreak Immunization Summary** screen displays.

- Complete the fields with the parameters to be searched.
- Click **Display**.

Associated Antigen(s): Immune globulin (Ig) Measles (M)

Display

Outbreak Immunization Summary

Outbreak Group: Measles OB

Include Children: Yes

Responsible Organization Unit: Nova Scotia Health Authority

Include Contacts: No

Disease/Etiologic Agent: Measles (Predominant) / Measles virus

Associated Antigen(s): Immune globulin (Ig), Measles (M)

Clients whose Investigations are classified as Contact-Not a Contact or Case-Not a Case are not included in the Outbreak Immunization Summary.

Client Name	Classification	Immune globulin (Ig) Valid Doses	Measles (M) Valid Doses	Agent(s) Received (Most Recent)	Eligible	Overdue
Test1, Lauren	Case - Person Under Investigation	0	0	-	-	MMR

Total: 1 Page 1 of 1 Jump to page:

The Outbreak Immunization Summary displays according to the requested parameters.

Note:

- The hyperlink on the Client Name connects to that Client's Immunization Profile where full details are available.
- The Outbreak Immunization Summary is only available for diseases where one or more Antigens have been configured to appear on the page.

5 VIEW COUNTS

The View Counts screens allow a User to view the frequency of occurrence of Signs and Symptoms and Outcomes in an Outbreak, both for Identified Investigations and for unidentified counts. The numbers for unidentified counts are taken from what was recorded on the Unidentified Counts screens.

Viewing Counts relies on Outbreak Presets for Signs & Symptoms related to the Outbreak Disease(s).

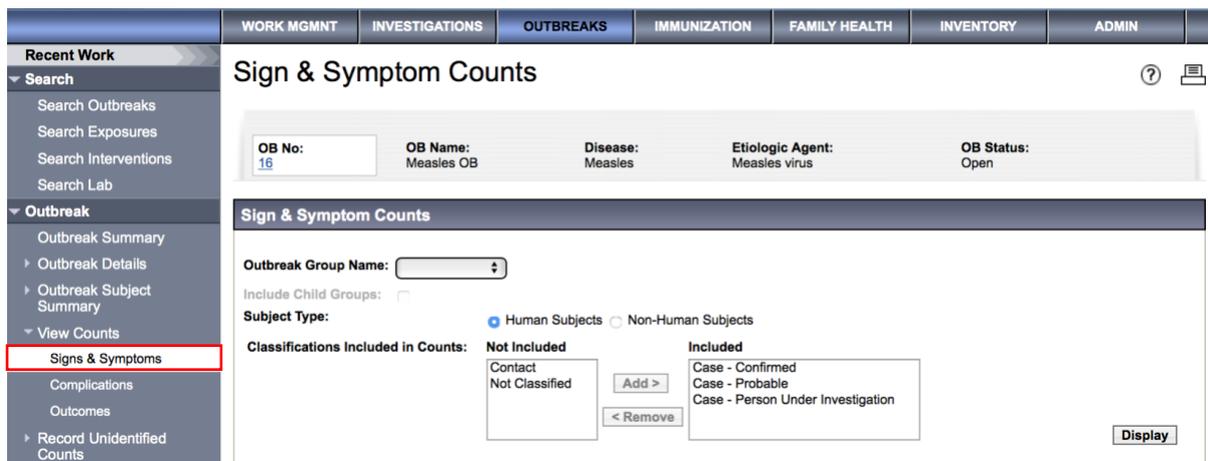
Users will first enter Presets where applicable before viewing counts.

5.1 View Signs & Symptoms Counts

Signs & Symptoms Counts shows counts of identified and unidentified Investigations that have reported for each Outbreak **Preset Sign & Symptom**. The counts of identified Investigations, as well as the calculations of the % Active Investigations and % of Population, only include Investigations with active Disease Events for the **Outbreak's Predominant Disease** classified under any Authority as Case. Active Disease Events are those for which the primary classification is neither "Not a Contact" nor "Not a Case".

The default sort in the section is by the **Sign & Symptom** column in ascending alphabetical order, and it may only be sorted by the **Sign & Symptom** column.

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Signs and Symptoms** under **View Counts**.



2. Select an **Outbreak Group Name**.
3. Click the **Include Child Groups** checkbox as required.
4. Select **Subject Type**.
5. Select the relevant Classifications for which counts are desired from the Classifications Included in Counts multi-select box and click **Add**.

Sign & Symptom Counts

Outbreak Group Name: Measles OB

Include Child Groups:

Subject Type: Human Subjects Non-Human Subjects

Classifications Included in Counts:

Not Included	Included
Contact Not Classified	Case - Confirmed Case - Probable Case - Person Under Investigation

Display

6. Click **Display**.

Sign & Symptom Counts

Outbreak Group Name: Measles OB

Include Child Groups: Subject Type: Human Subjects

Population Denominator: 0 Total Number Identified: 1

Classifications Included: Case - Confirmed, Case - Probable, Case - Person Under Investigation

Sign & Symptom (<input checked="" type="checkbox"/> Active Preset)	Identified Count	Unidentified Count	% Investigations Identified w/ Sign&Symptom (Selected Classifications)	% of Population Identified w/ Sign&Symptom (All Classifications)
Chills	1	-	100%	-
Conjunctivitis	1	-	100%	-
Cough	1	-	100%	-

The Signs and Symptoms counts are displayed in the table at the bottom of the screen. Click the **Show Presets Only** button to display counts and percentages for the Outbreak defined pre-set Sign & Symptom or click the **Show All** button to view all Signs and Symptoms

The Identified Sign and Symptom will display as a hyperlink which links to the **Identified Investigations** screen.

Identified Investigations



OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
------------------------------	------------------------	---------------------	-----------------------------------	--------------------

Identified Investigations for Sign & Symptom						
Sign & Symptom:	Cough	Include Child Groups:	<input checked="" type="checkbox"/>			
Outbreak Group Name:	Measles OB	Subject Type:	Human Subjects	Total Number Identified:	1	
Identified Count:	1	Population Denominator:	0	% Investigations Identified w/ Sign&Symptom (Selected Classifications):	100%	
				% of Population Identified w/ Sign&Symptom (All Classifications):	-	
Classifications Included: Case - Confirmed, Case - Probable, Case - Person Under Investigation						
Click Investigation ID to view Investigation Summary.						
Investigation ID	Subject Name	Level	Group Name	Age	Gender	Diseases / Primary Authority / Classification
167	Test1, Lauren	2	PNS Staff	41 yrs	Female	Measles / National / Case - Person Under Investigation
Total: 1		Page 1 of 1			Jump to page: <input type="text"/>	

This screen displays Investigations with the selected signs and symptoms. Clicking on the Investigation ID hyperlink takes the Users to the **Investigation Summary** screen.

Note:

- A warning will display if the total number of cases and contacts exceed the Population Denominator.
- If a sign and symptom has been defined as a preset for an Outbreak, a checkmark will appear to the left of the sign & symptom.
- Unidentified signs and symptoms count are counted by group and not by classification.
- If a linked Investigation has “Manual Authority” it will appear with a Classification of “Not Classified” in the Outbreak and will not be included in the counts.

5.2 Outcomes Counts

The **Outbreak Outcomes** section shows counts of identified and unidentified Investigations that have reported each **Outcome** for which unidentified counts may be recorded. The counts of identified Investigations above, as well as the calculations of the % Active Investigations and % of Population, only include Investigations with active Disease Events for the **Outbreak's Predominant Disease** classified under any Authority as Case. Active Disease Events are those for which the primary classification is neither “Not a Contact” nor “Not a Case”.

The default sort in the section is by the **Outcome** column in ascending alphabetical order, and it may only be sorted by the **Outcomes** column

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Outcomes** under **View Counts**.

	WORK MGMT	INVESTIGATIONS	OUTBREAKS	IMMUNIZATION	FAMILY HEALTH	INVENTORY	ADMIN
--	-----------	----------------	-----------	--------------	---------------	-----------	-------

Recent Work

Search

- Search Outbreaks
- Search Exposures
- Search Interventions
- Search Lab

Outbreak

- Outbreak Summary
- Outbreak Details
- Outbreak Subject Summary
- View Counts
 - Signs & Symptoms
 - Complications
 - Outcomes**
 - Record Unidentified Counts

Outcome Counts

OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
--------------	------------------------	---------------------	-----------------------------------	--------------------

Outcome Counts

Outbreak Group Name:

Include Child Groups:

Subject Type: Human Subjects Non-Human Subjects

Classifications Included in Counts:	Not Included	Included
	Contact Not Classified	Case - Confirmed Case - Probable Case - Person Under Investigation
	<input type="button" value="Add >"/>	<input type="button" value="< Remove"/>

The **Outcome Counts** screen displays.

2. Select an **Outbreak Group Name**.
3. Click the **Include Child Groups** checkbox as required.
4. Select **Subject Type**.
5. Select the relevant Classifications to include from the **Classifications Included in Counts** multi-select box. Click **Add** to include classification.

Outcome Counts

Outbreak Group Name:

Include Child Groups:

Subject Type: Human Subjects Non-Human Subjects

Classifications Included in Counts:	Not Included	Included
	Contact Not Classified	Case - Confirmed Case - Probable Case - Person Under Investigation
	<input type="button" value="Add >"/>	<input type="button" value="< Remove"/>

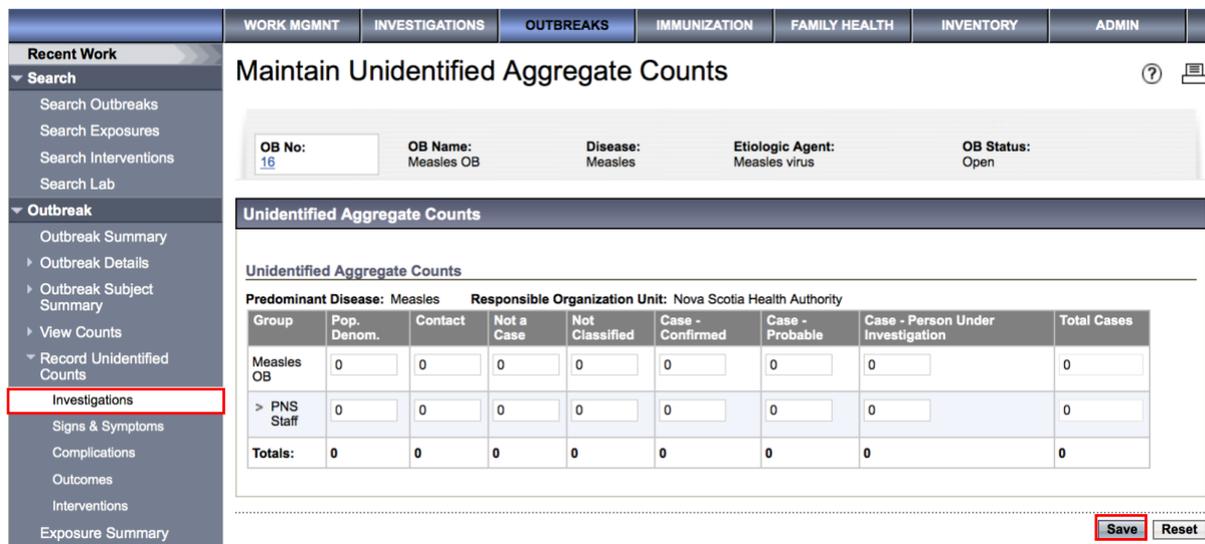
6. Click the **Display** button and the Outcomes counts will be displayed in the table at the bottom of the screen.

6 OUTBREAK UNIDENTIFIED COUNTS

The Outbreak module tracks both identified and unidentified investigations. Identified investigations are ones that have been entered on client records within Panorama, whereas unidentified ones are not. Recording unidentified investigations enables outbreak investigators to track the number of people infected by the outbreak without entering each individual into the system. For example, if an outbreak occurs in an extended care home, investigators may create client records and investigations for a limited number of residents and track them as identified investigations, recording symptoms and lab results. In addition, they can also keep track of the total number of people who are infected with unidentified aggregate counts, without creating records for all individuals in the system.

6.1 Record Unidentified Investigations

- After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Investigations** under **Record Unidentified Counts**.



The screenshot shows the 'Maintain Unidentified Aggregate Counts' screen. At the top, there are tabs for WORK MGMT, INVESTIGATIONS, OUTBREAKS, IMMUNIZATION, FAMILY HEALTH, INVENTORY, and ADMIN. The 'OUTBREAKS' tab is selected. On the left, a navigation menu is visible with 'Investigations' highlighted under 'Record Unidentified Counts'. The main content area displays the following information:

Maintain Unidentified Aggregate Counts ? 🖨️

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Unidentified Aggregate Counts

Unidentified Aggregate Counts

Predominant Disease: Measles Responsible Organization Unit: Nova Scotia Health Authority

Group	Pop. Denom.	Contact	Not a Case	Not Classified	Case - Confirmed	Case - Probable	Case - Person Under Investigation	Total Cases
Measles OB	0	0	0	0	0	0	0	0
> PNS Staff	0	0	0	0	0	0	0	0
Totals:	0	0	0	0	0	0	0	0

Save Reset

The **Maintain Unidentified Aggregate Counts** screen displays.

Note: The screen will appear and behave slightly differently depending on whether one or multiple responsible organizations have been identified for the outbreak.

- For Outbreaks with one **Responsible Organization Unit**:
 - Enter unidentified counts.
 - Click **Save**.
- For Outbreaks with multiple **Responsible Organization Units**:
 - Select a Responsible Organizational Unit.
 - Click **Display Counts** button. The system will display the unidentified counts table by Group and Classification for that Responsible Organizational Unit.

- Record unidentified counts.
- Click **Save**.

Maintain Unidentified Aggregate Counts



OB No: OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Unidentified aggregate counts successfully saved to the Outbreak

Unidentified Aggregate Counts

Unidentified Aggregate Counts

Predominant Disease: Measles Responsible Organization Unit: Nova Scotia Health Authority

Group	Pop. Denom.	Contact	Not a Case	Not Classified	Case - Confirmed	Case - Probable	Case - Person Under Investigation	Total Cases
Measles OB	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="3"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="3"/>
> PNS Staff	<input type="text" value="0"/>	<input type="text" value="2"/>	<input type="text" value="0"/>	<input type="text" value="2"/>				
Totals:	0	0	0	0	3	2	0	5

Screen refreshes and confirmation message “Unidentified aggregate counts successfully saved to the Outbreak” displays.

Note:

- The Classifications (e.g. Case-Confirmed; Case-Suspect) displayed will be those defined for the Disease in the Investigations module.
- A warning will display if the total number of cases and contacts exceed the Population Denominator, if a population denominator has been entered for the group.
- The Population Denominator is shared between the **Outbreak Groups** screen and the **Record Unidentified Counts** screens. The population denominator can be updated on the **Outbreak Groups** or the **Record Unidentified Counts** screens. Updates made to the population denominator on any of these screens will appear on the **Outbreak Groups** screen and the **Record Unidentified Counts** screens.

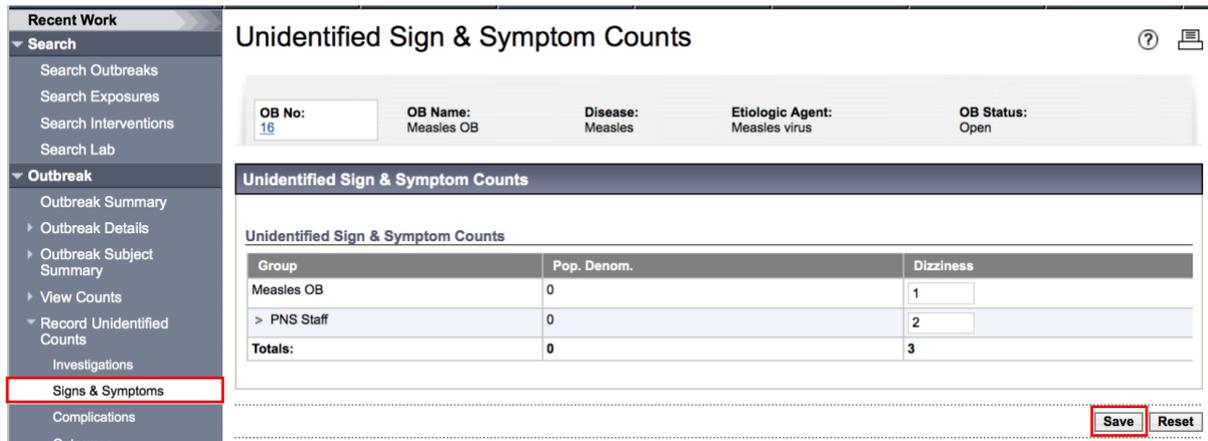
6.2 Record Unidentified Signs & Symptoms Counts

This screen is used to record aggregate counts of signs and symptoms for cases that have not been added to Panorama as identified clients and investigations. The counts are recorded by outbreak group for signs and symptoms identified in the **Sign and Symptoms Presets** screen.

The counts recorded here display on the **Sign & Symptom Counts** screen along with counts of signs and symptoms for identified investigations.

Unidentified counts can only be added for the predominant disease on the Outbreak.

- After setting an Outbreak in Context in the Outbreak Module and defining the Sign and Symptom presets for this Outbreak, navigate to the **Left-Hand Navigation** menu and select **Signs & Symptoms** under **Record Unidentified Counts**.



Unidentified Sign & Symptom Counts

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Group	Pop. Denom.	Dizziness
Measles OB	0	1
> PNS Staff	0	2
Totals:	0	3

Save **Reset**

The **Unidentified Sign & Symptom Counts** screen appears.

- Record unidentified counts for the Parent or Child Groups.
- Click **Save**.



Unidentified Sign & Symptom Counts

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

The Unidentified Sign & Symptom Counts data has been saved.

Group	Pop. Denom.	Dizziness
Measles OB	0	1
> PNS Staff	0	2
Totals:	0	3

Screen refreshes and confirmation message “The Unidentified Sign & Symptom counts data has been saved” displays.

Note: The Population Denominator is shared between the Outbreak Groups screen and the Record Unidentified Counts screens. The population denominator can be updated on the Outbreak Groups or the Record Unidentified Counts screens. Updates made to the population denominator on any of these screens will appear on the Outbreak Groups screen and the Record Unidentified Counts screens.

6.3 Record Unidentified Outcome Counts

This screen is used to record aggregate counts of Outcomes for cases that have not been added to Panorama as identified clients and investigations. The counts are recorded by outbreak group for outcomes configured in Panorama, and therefore there are no Outcome Presets.

The counts recorded here display on the **Outcome Counts** screen along with counts of outcomes for identified investigations.

- After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Outcomes** under **Record Unidentified Counts**.

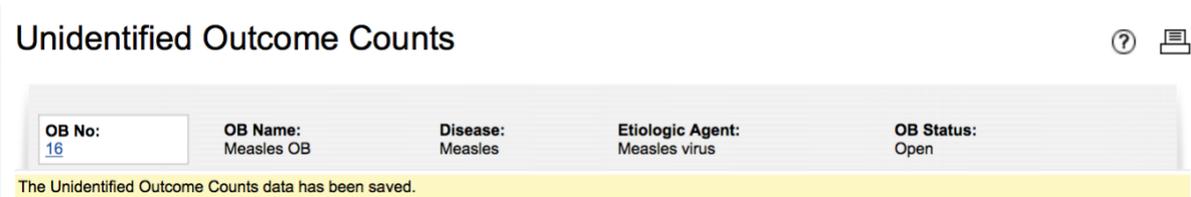
The **Unidentified Outcome Counts** screen appears.

- Select Available **Outcomes** from the multi-select box, and click the **Add** button to add them to the **Selected Outcomes** box. The system will add columns for unidentified outcome counts for each of the selected outcomes.
- Record unidentified counts.

Unidentified Outcome Counts

Group	Pop. Denom.	Alive-Hospitalized	Recovered
Measles OB	0	1	0
> PNS Staff	0	0	2
Totals:	0	1	2

16. Click **Save**



Unidentified Outcome Counts ? 📄

OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

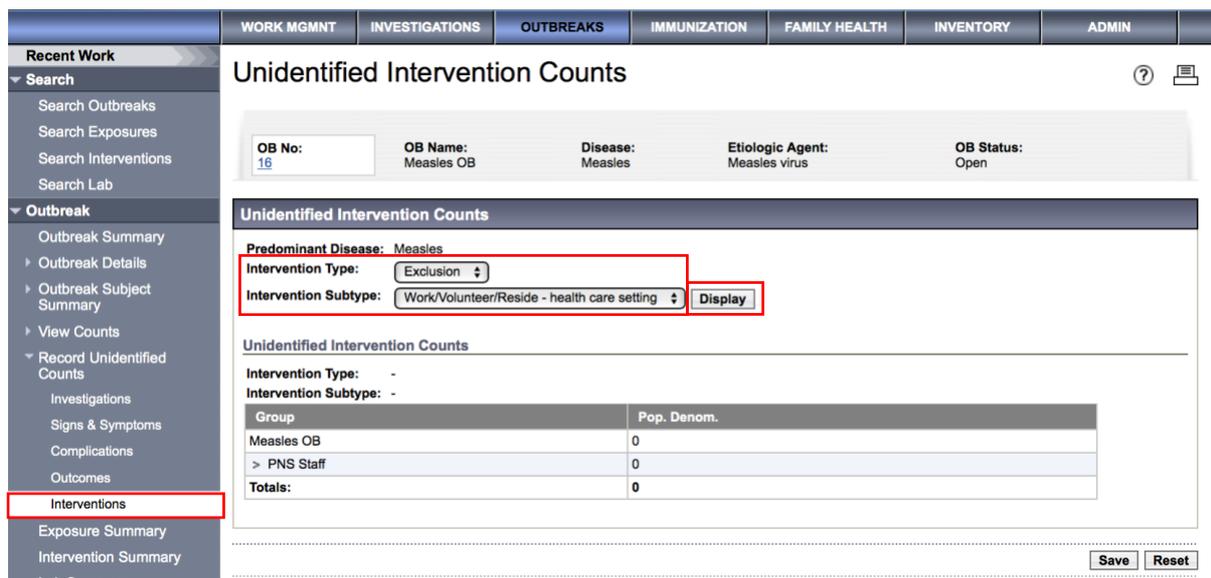
The Unidentified Outcome Counts data has been saved.

Screen refreshes and confirmation message “Unidentified Outcome Counts data has been saved” displays.

Note: The Population Denominator is shared between the Outbreak Groups screen and the Record Unidentified Counts screens. The population denominator can be updated on the Outbreak Groups or the Record Unidentified Counts screens. Updates made to the population denominator on any of these screens will appear on the Outbreak Groups screen and the Record Unidentified Counts screens.

6.4 Record Unidentified Intervention Counts

17. After setting an Outbreak in Context in the Outbreak Module and defining the Intervention presets for this Outbreak, navigate to the **Left-Hand Navigation** menu and select **Interventions** under **Record Unidentified Counts**.



Unidentified Intervention Counts ? 📄

OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

Unidentified Intervention Counts

Predominant Disease: Measles

Intervention Type: Exclusion

Intervention Subtype: Work/Volunteer/Reside - health care setting **Display**

Unidentified Intervention Counts

Intervention Type:	-
Intervention Subtype:	-

Group	Pop. Denom.
Measles OB	0
> PNS Staff	0
Totals:	0

Save **Reset**

The **Unidentified Intervention Counts** screen appears.

18. Select an **Intervention Type** and **Intervention Subtype** and click the **Display** button.

Unidentified Intervention Counts



OB No: 16
 OB Name: Measles OB
 Disease: Measles
 Etiologic Agent: Measles virus
 OB Status: Open

Unidentified Intervention Counts
Predominant Disease: Measles
Intervention Type: Exclusion
Intervention Subtype: Work/Volunteer/Reside - health care setting **Display**

Unidentified Intervention Counts
Intervention Type: Exclusion
Intervention Subtype: Work/Volunteer/Reside - health care setting

Group	Pop. Denom.	Contact	Not a Case	Case - Confirmed	Case - Person Under Investigation	Case - Probable	Not Classified
Measles OB	0	0	2	0	0	0	0
> PNS Staff	0	0	0	0	2	0	0
Totals:	0	0	2	0	2	0	0

The **Unidentified Intervention Counts** screen redisplay with the selected Intervention Type and Sub-Type and the Classifications columns.

19. Enter Unidentified Counts for the selected Type and Sub-Type and Click **Save**.

Unidentified Intervention Counts
Predominant Disease: Measles
Intervention Type: Exclusion
Intervention Subtype: Work/Volunteer/Reside - health care setting **Display**

Unidentified Intervention Counts
Intervention Type: Exclusion
Intervention Subtype: Work/Volunteer/Reside - health care setting

Group	Pop. Denom.	Contact	Not a Case	Case - Confirmed	Case - Person Under Investigation	Case - Probable	Not Classified
Measles OB	0	0	2	0	0	0	0
> PNS Staff	0	0	0	0	2	0	0
Totals:	0	0	2	0	2	0	0

The not-classified counts will be removed after you save the changes. Click 'Cancel' if you want to redistribute them.

A pop-up window displays with the message, “The not-classified counts will be removed after you save the changes.” Click ‘Cancel’ if you want to redistribute them.

20. Click **OK**.

Unidentified Intervention Counts



OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

The Unidentified Intervention Counts data has been saved.

Screen refreshes and confirmation message “The Unidentified Intervention Counts data has been saved” displays.

Note: The Population Denominator is shared between the Outbreak Groups screen and the Record Unidentified Counts screens. The population denominator can be updated on the Outbreak Groups or the Record Unidentified Counts screens. Updates made to the population denominator on any of these screens will appear on the Outbreak Groups screen and the Record Unidentified Counts screens.

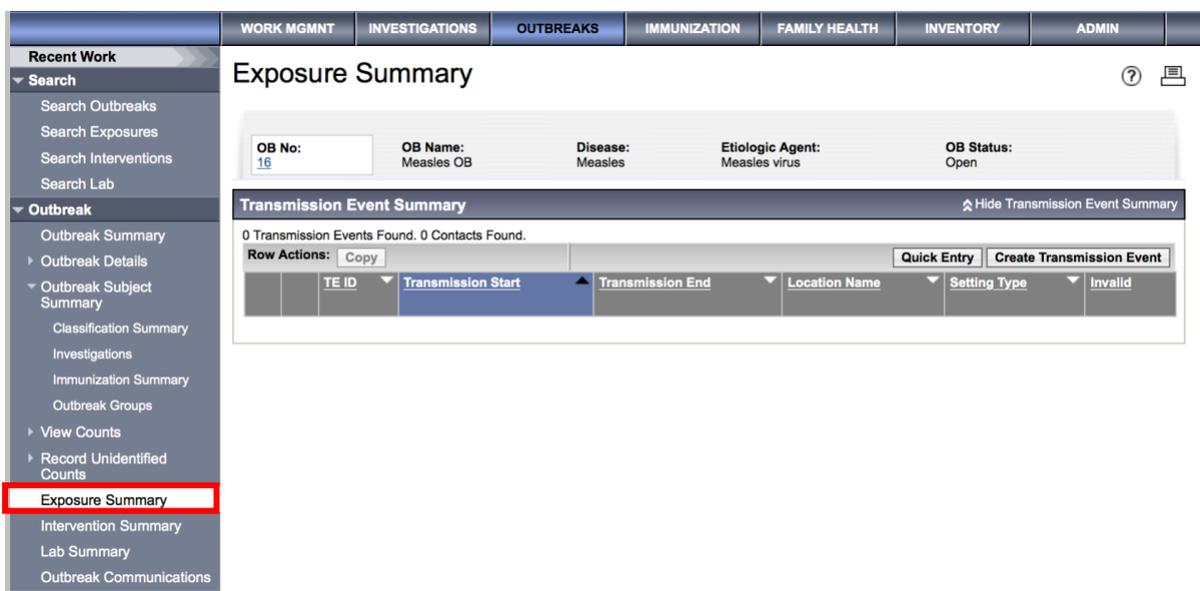
7 EXPOSURES

Panorama’s exposures functionality provides users the ability to track individual Subjects, their exposure to disease and a list of contacts they may have exposed. The Exposures functionality is available through the Outbreak module and utilizes the same screen using in the Investigations Module.

Note: Acquisition Events cannot be created through the Outbreak Module.

7.1 View Exposure Summary

1. After setting an Outbreak in Context in the Outbreaks Module, navigate to the **Left-Hand Navigation** menu, select **Exposure Summary**.



The screenshot displays the 'Exposure Summary' interface. On the left, a navigation menu lists various options, with 'Exposure Summary' highlighted in red. The main area shows the following details:

- OB No.:** 16
- OB Name:** Measles OB
- Disease:** Measles
- Etiologic Agent:** Measles virus
- OB Status:** Open

Below these details is a section titled 'Transmission Event Summary' with a 'Hide Transmission Event Summary' link. It reports '0 Transmission Events Found. 0 Contacts Found.' and includes a table with the following columns: TE ID, Transmission Start, Transmission End, Location Name, Setting Type, and Invalid. Action buttons for 'Copy', 'Quick Entry', and 'Create Transmission Event' are also present.

Exposure Summary screen displays.

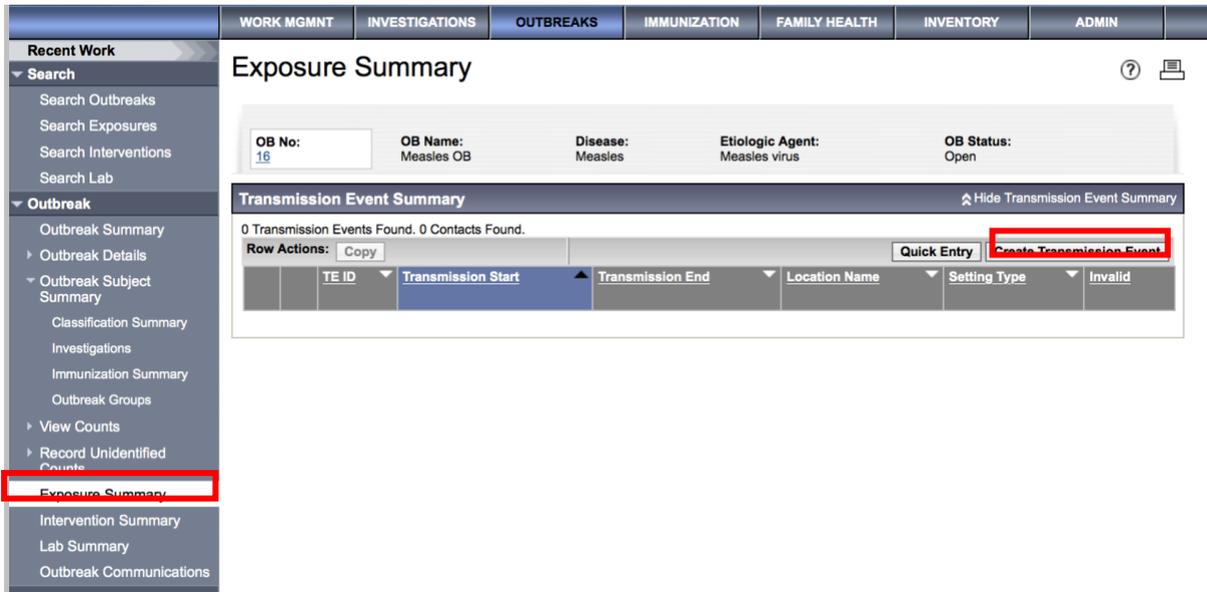
Note: The Exposure Summary screen displays all transmission events and acquisition events associated to the investigation in context. If only a subject is in context, the screen displays all transmission events and acquisition events associated to all investigations for the subject.

7.2 Quick Entry – Transmission Event

The Transmission Event Quick Entry screen will not be used in Nova Scotia.

7.3 Create Transmission Event

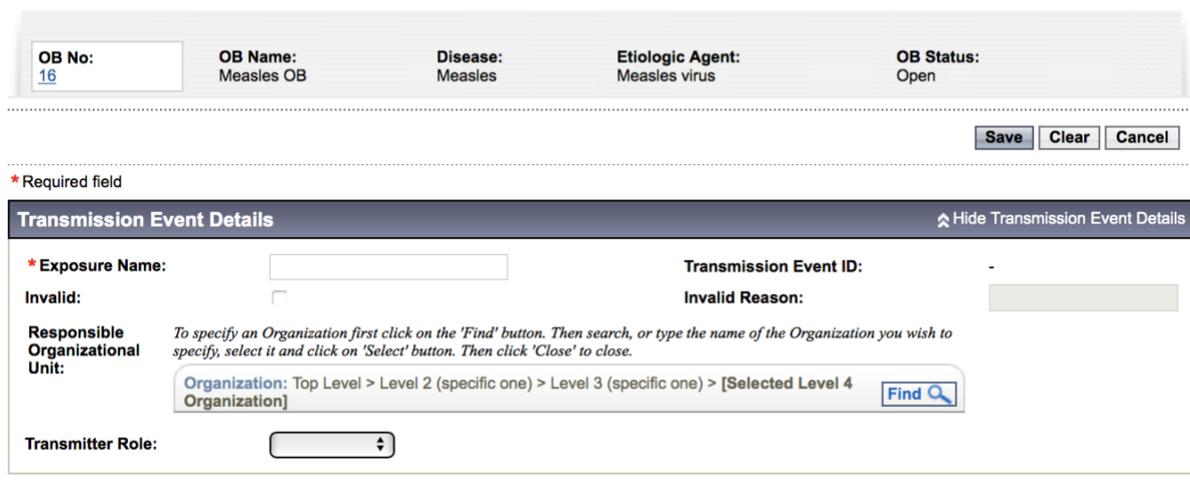
1. After setting an Outbreak in Context in the Outbreaks Module, navigate to the **Left-Hand Navigation** menu, select **Exposure Summary**.



Exposure Summary screen displays.

- Under Transmission Event Summary section, click **Create Transmission Event**.

Maintain Transmission Event Details



Maintain Transmission Event Details page displays.

- Enter **Exposure Name**.
- Select a **Responsible Organization** (This is who is managing the case).
- Expand Source Details section and select **Mode of Transmission**.
- As an optional field, select one or more **Nature of Transmission** values (filtered by potential mode of acquisition) and click **Add** to move to **Selected** box.

Transmission Event Details Hide Transmission Event Details

Exposure Name: Measles exposure **Transmission Event ID:** -

Invalid: **Invalid Reason:**

Responsible Organizational Unit: *To specify an Organization first click on the 'Find' button. Then search, or type the name of the Organization you wish to specify, select it and click on 'Select' button. Then click 'Close' to close.*

Organization: Panorama Cloud > Province of Nova Scotia > Department of Health and Wellness > [Nova Scotia Health Authority] Find

Close X

Type **Search**

*Start typing the name of the Organization. Matches will begin to appear below.
Select the match with the keyboard or mouse.*

Organization Name: Nova Scotia Health Authority, - Show Info

City, Province: - **Hierarchy Type:** Jurisdictional **Status:** Active

Select

Transmitter Role:

Source Contains Data Show Source

Source Details Hide Source Details

Mode of Transmission: Waterborne

Nature of Transmission:

Exposure to contaminated water	Add >	Consumption of contaminated water
	Add All >>	
	< Remove	
	<< Remove All	

7. From the Transmission Event Date/Time section, select an **Exposure Start Date** (and, optionally, an **End Date**).
8. Expand the Exposure Location section, enter an **Exposure Location Name**.
9. Select an **Exposure Setting Type**.
10. Select an **Exposure Setting** (filtered by Exposure Setting Type).
11. Optionally, enter **Country** and **Address**.

Transmission Event Date/Time Hide Transmission Event Date/Time

Disease	Earliest Possible Communicability From	Earliest Probable Communicability From	Latest Probable Communicability To	Latest Possible Communicability To
Measles	-	-	-	-

*** Transmission Start:** 2018 / 08 / 01 : :ADT Estimated
 yyyy mm dd hh mm

Transmission End: 2018 / 08 / 01 : :ADT Estimated
 yyyy mm dd hh mm

Exposure Duration: 0 Days

Exposure Location Hide Exposure Location

Exposure Location Name: PSN Hospital

Exposure Setting Type: Health care setting

Exposure Setting: Hospital

Country: Canada

Address: 123 PNS Street

Unit No. Street No. Street Name Street Type Street Direction

P.O. Box STN RPO Rural Route

Province/Territory: Nova Scotia **City:** Halifax

Postal Code: N1N 1N1

Geo-coding Information

Geo-code Status:

Latitude: **Longitude:**

12. Click **Save** button.

Maintain Transmission Event Details ? 📄

OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

Transmission event successfully saved.

Save **Reset** **Cancel**

* Required field

Screen refreshes and confirmation message 'Transmission event successfully saved' displays.

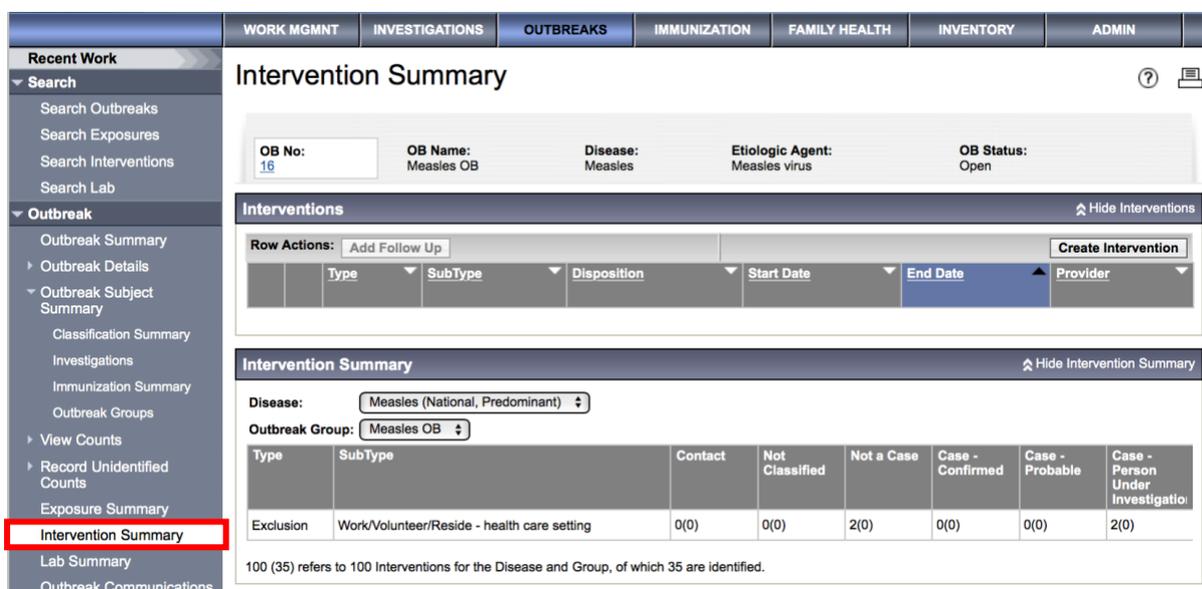
8 INTERVENTION SUMMARY

The View Intervention Summary screen provides a summary of interventions and the associated follow-ups for a selected Subject, and optionally an Investigation. Pre-set interventions can be added, which are cross-referenced to the disease and classification on the Investigation selected, and optionally add multiple interventions associated to an intervention group.

From the Intervention Summary screen, creation of new interventions and follow-ups can be initiated, as well as view details of existing records.

8.1 View Intervention Summary

1. After setting an Outbreak in Context in the Outbreaks Module, navigate to the **Left-Hand Navigation** menu, select **Intervention Summary**.



Intervention Summary

OB No: 16 OB Name: Measles OB Disease: Measles Etiologic Agent: Measles virus OB Status: Open

Type	SubType	Disposition	Start Date	End Date	Provider
Exclusion	Work/Volunteer/Reside - health care setting	0(0)	0(0)	2(0)	0(0)

100 (35) refers to 100 Interventions for the Disease and Group, of which 35 are identified.

Intervention Summary page displays.

8.2 Create Intervention

1. After setting an Outbreak in Context in the Outbreaks Module, navigate to the **Left-Hand Navigation** menu, select **Intervention Summary**.

WORK MGMT | INVESTIGATIONS | **OUTBREAKS** | IMMUNIZATION | FAMILY HEALTH | INVENTORY | ADMIN

Recent Work

- Search
 - Search Outbreaks
 - Search Exposures
 - Search Interventions
 - Search Lab
- Outbreak**
 - Outbreak Summary
 - Outbreak Details
 - Outbreak Subject Summary
 - Classification Summary
 - Investigations
 - Immunization Summary
 - Outbreak Groups
 - View Counts
 - Record Unidentified Counts
 - Exposure Summary
 - Intervention Summary**
 - Lab Summary
 - Outbreak Communications

Intervention Summary

OB No: 16 | OB Name: Measles OB | Disease: Measles | Etiologic Agent: Measles virus | OB Status: Open

Interventions Hide Interventions

Row Actions: Add Follow Up **Create Intervention**

Type	SubType	Disposition	Start Date	End Date	Provider		
Exclusion	Work/Volunteer/Reside - health care setting	0(0)	0(0)	2(0)	0(0)	0(0)	2(0)

Intervention Summary Hide Intervention Summary

Disease: Measles (National, Predominant)

Outbreak Group: Measles OB

Type	SubType	Contact	Not Classified	Not a Case	Case - Confirmed	Case - Probable	Case - Person Under Investigation
Exclusion	Work/Volunteer/Reside - health care setting	0(0)	0(0)	2(0)	0(0)	0(0)	2(0)

100 (35) refers to 100 Interventions for the Disease and Group, of which 35 are identified.

Intervention Summary page displays.

2. Click **Create Intervention**.

Intervention Details

OB No: 16 | OB Name: Measles OB | Disease: Measles | Etiologic Agent: Measles virus | OB Status: Open

Save Clear Cancel

Reason for Deletion: Delete

Intervention Details Hide Intervention Details

* Required field

Encounter Group: Communicable Disease Investigation

* Intervention Type: * Intervention Sub Type:

Intervention Disposition:

* Outcome:

* Start Date: 2018 / 09 / 05 End Date: / /

yyyy mm dd yyyy mm dd

The Intervention Details screen displays.

3. Complete the mandatory (*) fields and other fields as applicable.
4. Click **Save**.

Intervention Details



OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

Intervention successfully saved.

Reason for Reliance:

Page refreshes and confirmation message 'Intervention successfully saved' displays.

9 OUTBREAK ADMINISTRATION

9.1 Link Outbreaks

The Link Outbreaks screen lets you associate two or more outbreaks in the same Jurisdiction together.

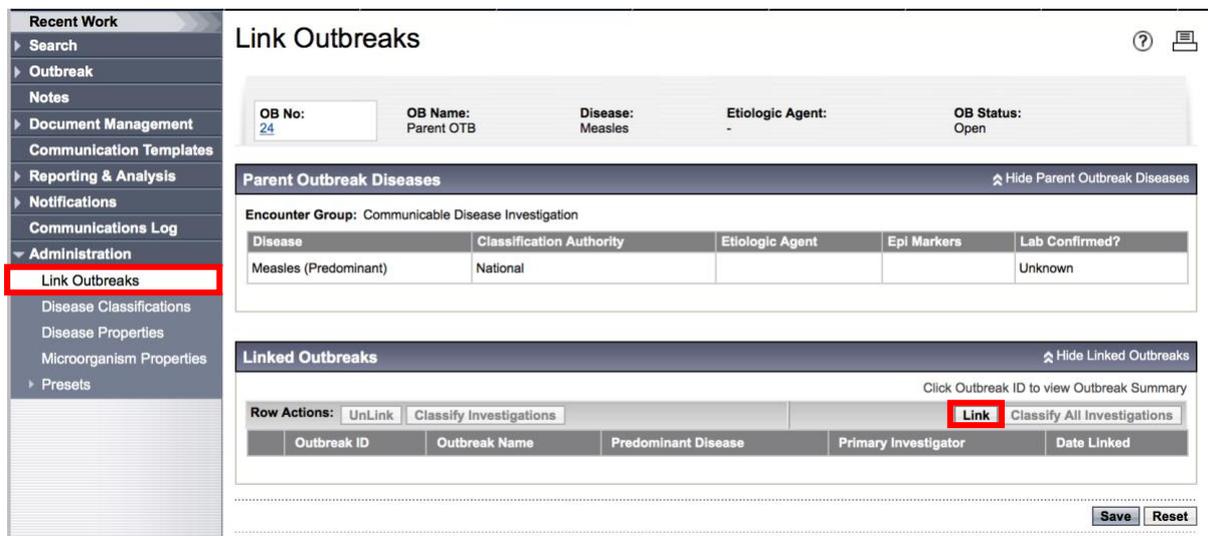
Linking is the process of joining a parent outbreak to a child outbreak:

- Parent outbreaks do not have investigations associated to them directly and do not have unassociated aggregate counts
- Child outbreaks contain directly associated investigations and unidentified aggregate counts

Parent outbreaks cannot be linked to other parent outbreaks, and child outbreaks cannot be linked to other child outbreaks.

9.1.1 Link a Parent Outbreak to a Child Outbreak

1. After setting a **Parent Outbreak** in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Link Outbreaks** under **Administration**.



Link Outbreaks

OB No: 24 OB Name: Parent OTB Disease: Measles Etiologic Agent: - OB Status: Open

Parent Outbreak Diseases Hide Parent Outbreak Diseases

Encounter Group: Communicable Disease Investigation

Disease	Classification Authority	Etiologic Agent	Epi Markers	Lab Confirmed?
Measles (Predominant)	National			Unknown

Linked Outbreaks Hide Linked Outbreaks

Click Outbreak ID to view Outbreak Summary

Row Actions: UnLink Classify Investigations **Link** Classify All Investigations

Outbreak ID	Outbreak Name	Predominant Disease	Primary Investigator	Date Linked
-------------	---------------	---------------------	----------------------	-------------

Save Reset

The **Link Outbreaks** page displays.

2. Click **Link** button to link an outbreak.

Search Outbreaks - Basic



OB No: 24	OB Name: Parent OTB	Disease: Measles	Etiologic Agent: -	OB Status: Open
--------------	------------------------	---------------------	-----------------------	--------------------

Search Criteria Hide Search Criteria

Wildcard characters % (multiple letters) and _ (single letters) can be used. Wildcard-only searches not allowed.

Search by:

Outbreak ID:

Alternate Source: Alternate ID:

Outbreak Name:

Outbreak Link Role: Unlinked Only:

Outbreak Type:

Outbreak Status:

Outbreak Setting Type:

Outbreak Setting:

Responsible Organization Unit(s): Exact Match

To specify an Organization first click on the 'Find' button. Then search, or type the name of the Organization you wish to specify, select it and click on 'Select' button. Then click 'Close' to close.

Organization: Top Level > Level 2 (specific one) > Level 3 (specific one) > [Selected Level 4 Organization]

Encounter Group:

Disease:

Microorganism:

Genotype:

Genotype (specify):

NML No.:

Sequence designation:

Sequence designation comment:

Disease Lab Confirmed:

Report Date (Received) Range From: / / To: / /

[Advanced Search](#)

The Search Outbreaks - Basic screen displays.

Note: The system sets three default search criteria as follows:

1. Encounter Group is set to the encounter group selected for the parent outbreak
 2. Outbreak Link Role is set to Child
 3. Unlinked Only check box is selected.
3. Enter search criteria and click **Search**.

Outbreak Search Results						
2 results found.			Click Outbreak ID (OB ID) to view Outbreak Summary.			
Row Actions: Preview Update Select & Return			Create Outbreak New Search			
OB ID / Alternate No	Outbreak Name	Responsible Organization Unit	Predominant Disease	Earliest Report Date (Received)	Outbreak Status	
<input checked="" type="checkbox"/> 16	Measles OB	Nova Scotia Health Authority	Measles	-	Open	
<input type="checkbox"/> 21 / PO	Measles Outbreak	Province of Nova Scotia	Measles	-	Open	
Total: 2			Page 1 of 1		Jump to page: <input type="text"/>	

Search results display.

- Select the check box next to the outbreak(s) to link, then click **Select & Return**.

Linked Outbreaks					
			Click Outbreak ID to view Outbreak Summary		
Row Actions: UnLink Classify Investigations			Link Classify All Investigations		
Outbreak ID	Outbreak Name	Predominant Disease	Primary Investigator	Date Linked	
<input type="checkbox"/> 16	Measles OB	Measles	Xie, Lauren	2018 Sep 11	
				Save	Reset

Screen refreshes and the child outbreak is displayed in the Linked Outbreaks section.

- Click **Save**.

Link Outbreaks

OB No: 24	OB Name: Parent OTB	Disease: Measles	Etiologic Agent: -	OB Status: Open
------------------------------	------------------------	---------------------	-----------------------	--------------------

The Outbreak Links data has been saved.

Screen refreshes and confirmation message 'The Outbreak Links data has been saved' displays.

9.1.2 Unlinking Child Outbreaks

- After setting a **Parent Outbreak** in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Link Outbreaks** under **Administration**.

Note: If the Parent Outbreak is unknown, a link to the Parent Outbreak can also be accessed through the Link Outbreaks page of the Child Outbreak.

WORK MGMT | INVESTIGATIONS | **OUTBREAKS** | IMMUNIZATION | FAMILY HEALTH | INVENTORY | ADMIN

Recent Work

- Search
- Outbreak
- Notes
- Document Management
- Communication Templates
- Reporting & Analysis
- Notifications
- Communications Log
- Administration
 - Link Outbreaks**
 - Disease Classifications
 - Disease Properties
 - Microorganism Properties
 - Presets

Link Outbreaks

OB No: OB Name: Parent OTB Disease: Measles Etiologic Agent: - OB Status: Open

Parent Outbreak Diseases Hide Parent Outbreak Diseases

Encounter Group: Communicable Disease Investigation

Disease	Classification Authority	Etiologic Agent	Epi Markers	Lab Confirmed?
Measles (Predominant)	National			Unknown

Linked Outbreaks Hide Linked Outbreaks

Click Outbreak ID to view Outbreak Summary

Row Actions: **UnLink** Classify Investigations Link Classify All Investigations

Outbreak ID	Outbreak Name	Predominant Disease	Primary Investigator	Date Linked
<input checked="" type="radio"/> 16	Measles OB	Measles	Xie, Lauren	2018 Sep 11

Save Reset

The **Link Outbreaks** page displays.

2. Select the radio button next to the child outbreak to be unlinked and then click **UnLink**.

Link Outbreaks

OB No: OB Name: Parent OTB Disease: Measles Etiologic Agent: - OB Status: Open

Parent Outbreak Diseases Hide Parent Outbreak Diseases

Encounter Group: Communicable Disease Investigation

Disease	Classification Authority	Etiologic Agent	Epi Markers	Lab Confirmed?
Measles (Predominant)	National			Unknown

Linked Outbreaks Hide Linked Outbreaks

Click Outbreak ID to view Outbreak Summary

Row Actions: UnLink Classify Investigations Link Classify All Investigations

Outbreak ID	Outbreak Name	Predominant Disease	Primary Investigator	Date Linked
-------------	---------------	---------------------	----------------------	-------------

Save Reset

The child outbreak is disassociated from the parent, and the Link Outbreaks screen updates with the unlinked child outbreak removed.

3. Click **Save**.

Link Outbreaks



OB No: 24	OB Name: Parent OTB	Disease: Measles	Etiologic Agent: -	OB Status: Open
------------------------------	------------------------	---------------------	-----------------------	--------------------

The Workgroup Administrator(s) of the unlinked Child Outbreak Teams are still members of the Parent Outbreak Team. They may be removed manually. The Outbreak Links data has been saved.

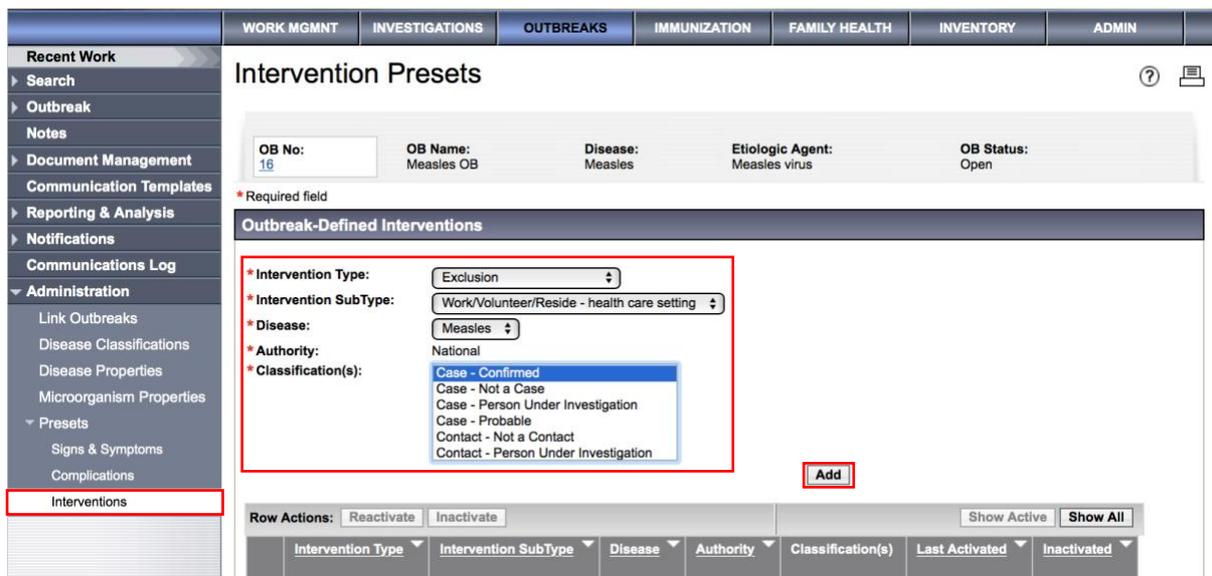
9.2 Outbreak Presets

9.2.1 Preset Interventions

The Record Unidentified Interventions screen is used to record aggregate counts of interventions for cases that have not been added to Panorama as identified clients and investigations. The counts are recorded by outbreak group for interventions identified on the **Intervention Presets** screen.

The counts recorded here display on the **Intervention Summary** screen along with counts of interventions for identified investigations.

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Interventions** under **Presets**.



The screenshot shows the 'Intervention Presets' screen. At the top, there is a navigation bar with tabs for WORK MGMT, INVESTIGATIONS, OUTBREAKS, IMMUNIZATION, FAMILY HEALTH, INVENTORY, and ADMIN. Below this is a sidebar menu with categories like Recent Work, Search, Outbreak, Notes, Document Management, Communication Templates, Reporting & Analysis, Notifications, Communications Log, and Administration. Under Administration, 'Interventions' is highlighted. The main content area shows a form for defining an intervention. It includes fields for OB No. (16), OB Name (Measles OB), Disease (Measles), Etiologic Agent (Measles virus), and OB Status (Open). Below these is a section for 'Outbreak-Defined Interventions' with a red box highlighting the following fields:

- * Intervention Type: Exclusion
- * Intervention SubType: Work/Volunteer/Reside - health care setting
- * Disease: Measles
- * Authority: National
- * Classification(s): A dropdown menu is open showing options: Case - Confirmed, Case - Not a Case, Case - Person Under Investigation, Case - Probable, Contact - Not a Contact, and Contact - Person Under Investigation.

 An 'Add' button is located below the classification dropdown. At the bottom, there is a table with columns for Intervention Type, Intervention SubType, Disease, Authority, Classification(s), Last Activated, and Inactivated. The table currently has no rows.

The **Intervention Presets** screen displays.

2. Select an **Intervention Type**.
3. Select an **Intervention Subtype**.
4. Select one or more **Classifications**.
5. Click the **Add** button to add the selected Intervention to the summary table. A row will be added for each classification selected.

Row Actions: <input type="button" value="Reactivate"/> <input type="button" value="Inactivate"/>		<input type="button" value="Show Active"/> <input type="button" value="Show All"/>					
<input type="checkbox"/>	Intervention Type	Intervention SubType	Disease	Authority	Classification(s)	Last Activated	Inactivated
<input type="checkbox"/>	Exclusion	Work/Volunteer/Reside - health care setting	Measles	National	Case - Confirmed	2018 Aug 23 14:44 ADT	-

6. Click **Save** to save the Intervention as a Preset.

Intervention Presets

OB No: <input type="text" value="16"/>	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---	------------------------	---------------------	-----------------------------------	--------------------

Outbreak Intervention Preset(s) successfully saved

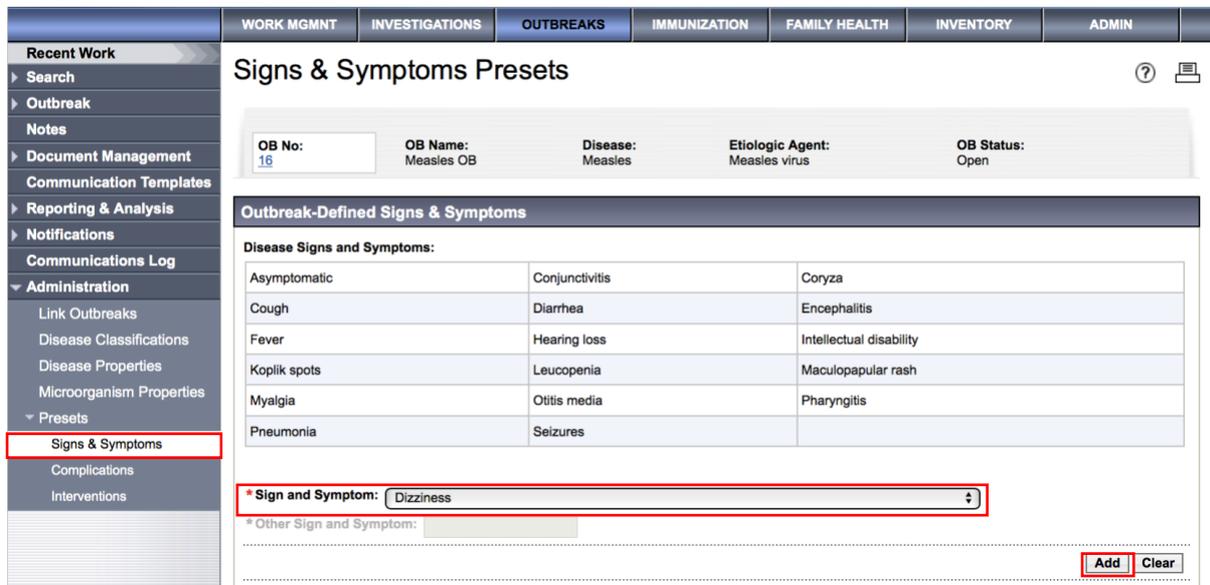
* Required field

Screen refreshes and confirmation message “Outcome Intervention Preset(s) successfully saved” displays. Unidentified counts can now be added to the preset.

9.2.2 Preset Signs & Symptoms

The Signs and Symptoms Presets page enables users to add preset signs and symptoms for an outbreak, which results in investigators seeing the preset sign and symptoms when adding signs and symptoms for the investigation. Investigators can then enter a response for each present sign and symptom and add additional signs and symptoms as necessary. This supports the communication of non-typical signs or symptoms for that disease that should be collected because of the outbreak that the investigation is linked to.

1. After setting an Outbreak in Context in the Outbreak Module, navigate to the **Left-Hand Navigation** menu and select **Signs and Symptoms** under **Administration**.

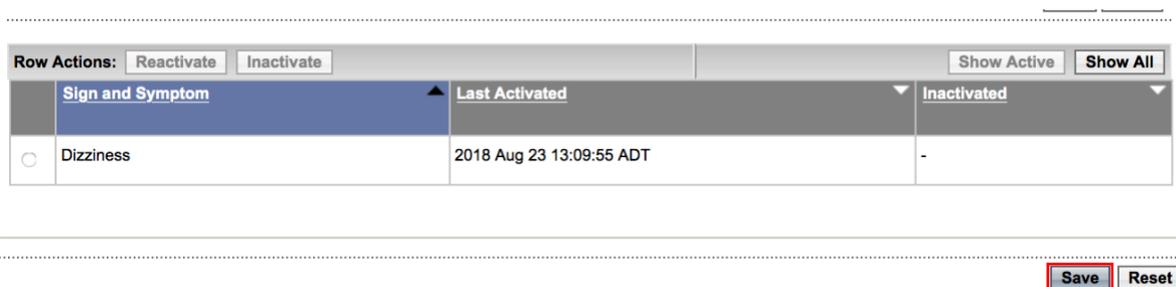


The **Signs and Symptoms Presets** screen displays.

Note: The Signs and Symptoms displayed in the Outbreak-Defined Signs & Symptoms section are for information purposes only.

Follow the steps below to add a Sign and Symptom preset to your Outbreak.

2. Select a **Sign** and **Symptom**. Click the **Add** button to add the selected **Sign** and **Symptom** preset.



Sign and Symptom	Last Activated	Inactivated
Dizziness	2018 Aug 23 13:09:55 ADT	-

The added Sign and Symptom will then display in the **Sign and Symptom** table.

3. Click **Save**.

Signs & Symptoms Presets



OB No: 16	OB Name: Measles OB	Disease: Measles	Etiologic Agent: Measles virus	OB Status: Open
---------------------	-------------------------------	----------------------------	--	---------------------------

Outbreak Sign and Symptom Preset(s) successfully saved

Outbreak-Defined Signs & Symptoms

Disease Signs and Symptoms:

Asymptomatic	Conjunctivitis	Coryza
Cough	Diarrhea	Encephalitis
Fever	Hearing loss	Intellectual disability
Koplik spots	Leucopenia	Maculopapular rash
Myalgia	Otitis media	Pharyngitis
Pneumonia	Seizures	

* Sign and Symptom:

* Other Sign and Symptom:

Row Actions:	<input type="button" value="Reactivate"/> <input type="button" value="Inactivate"/>	<input type="button" value="Show Active"/> <input type="button" value="Show All"/>	
<input type="checkbox"/>	Sign and Symptom	Last Activated	Inactivated
<input type="checkbox"/>	Dizziness	2018 Aug 23 13:09:55 ADT	-

Screen refreshes and confirmation message “Outbreak Sign and Symptom Preset(s) successfully saved” displays. Unidentified counts can now be recorded for the preset.

- Click the **Show All** button to view all preset signs and symptoms or click the **Show Active** button to view only the Active Preset Signs and Symptoms.

Screen refreshes and confirmation messages display.